

ARCHITECTURAL TERRA COTTA

STANDARD
CONSTRUCTION

NATIONAL TERRA COTTA SOCIETY
U.S.A.

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ARCHITECTURAL TERRA COTTA

· STANDARD ·
CONSTRUCTION

NATIONAL
TERRA COTTA SOCIETY

METROPOLITAN
BUILDING

U · S · A

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Foreword

THE use of burned clay ware in the form of brick, tile or pottery has been uninterrupted and universal from the dawn of civilization to the present day. The use of burned clay in the form of Architectural Terra Cotta has been more sporadic and local. Its unequalled merits as a building material were fully appreciated by the Greeks and Tuscans who, two thousand years ago, used it to face the perishable stone in some of their Temples. Centuries passed, during which the art of making Architectural Terra Cotta seems to have been confined to short periods and to a few localities. In modern times the creator of the skyscraper—the progressive American Architect—working with the responsive and enterprising Manufacturer, re-discovered, improved and gave to an appreciative Public this most durable and versatile of all building materials.

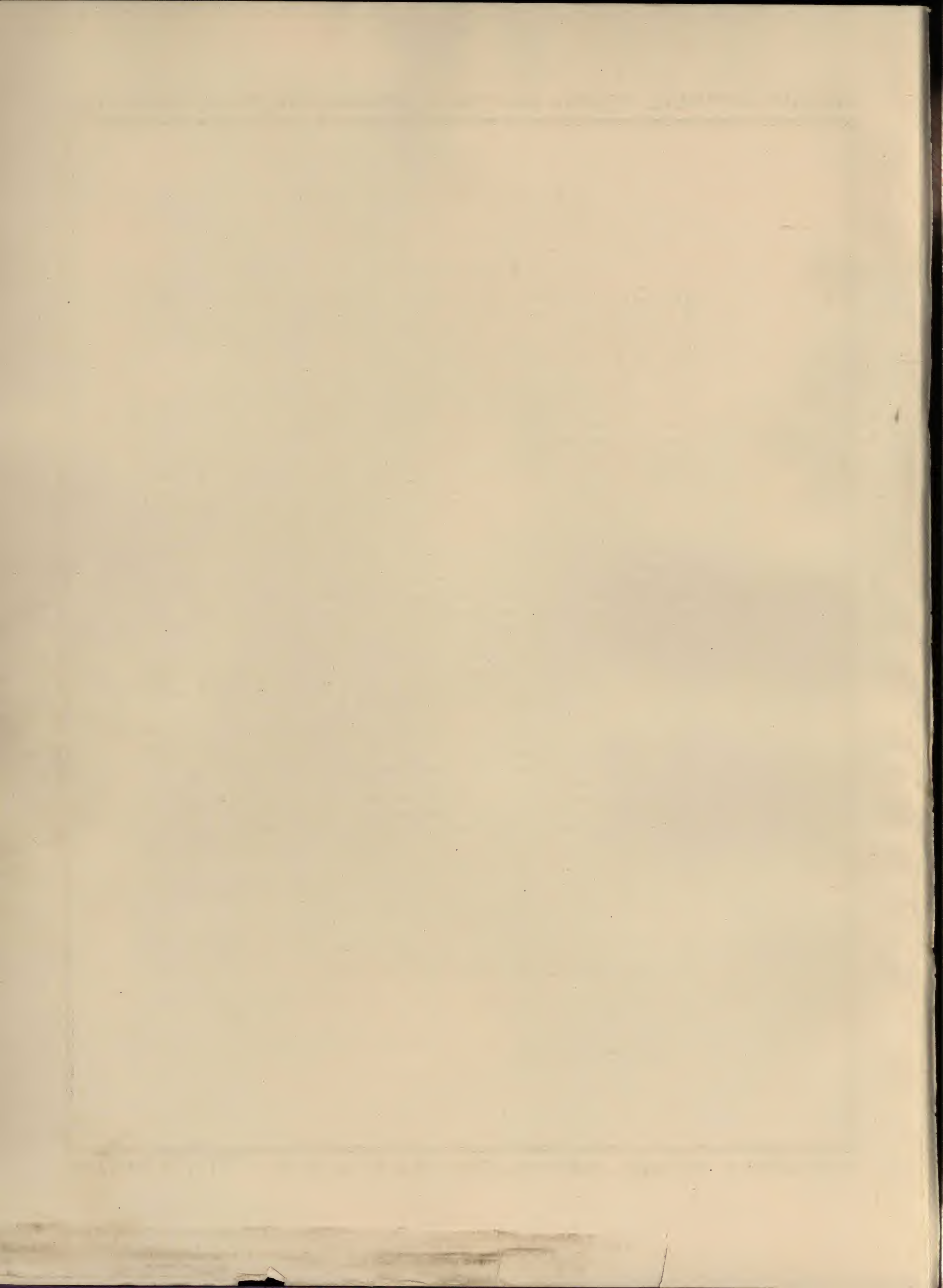
Today it is a matter of common knowledge among Architects that modern Terra Cotta possesses many superior qualities; that it may be economically made in an endless variety of forms and colors; that, if well made, properly set and carefully pointed, it is permanently enduring and resists successfully the ravages of water and fire; that it combines lightness with strength and beauty with usefulness.

The purpose of this book, prepared through the co-operation of nearly all the manufacturers of Architectural Terra Cotta in the United States, is to facilitate the use of this material; to save time, trouble and expense to all concerned by disseminating accurate and dependable information on proper methods of jointing and construction. Nearly all of these methods have been in practical use for some years.

This work is in no sense intended to be a book of artistic aspirations. It does not presume to even suggest architectural design; it merely contains generally accepted architectural forms of assumed dimensions and their proper interpretation in Architectural Terra Cotta. For a number of the problems several good solutions are possible and the preference is sometimes governed by very slight modifications of profiles and dimensions. But attention is called particularly to the fact that considerable variations in sizes of similar sections may necessitate changes in both jointing and construction. Hence, none of the plates may exactly apply if the scale is reduced or increased.

The characteristics peculiar to Architectural Terra Cotta and the extreme difficulties encountered in the vagaries of clay before it is finally conquered and forever fixed by fire, can hardly be understood by those who have not been engaged in its manufacture. Therefore, harmonious co-operation between designers and manufacturers is imperative in order to produce the best results. Unfavorable shapes or dimensions, or arbitrary arrangement of engaging or supporting materials, may not only increase the cost of production and of erection, but may also produce unsatisfactory results, both aesthetically and constructively. But where the important rules of jointing and construction are observed, well made Architectural Terra Cotta is the ideal building material of the Twentieth Century.

This book is respectfully dedicated to our best friends—the Architects and the Architectural Engineers and their Assistants—with the sincere hope that they will endorse its value and express their appreciation of our efforts by receiving, treating and consulting it as a trustworthy friend of the office.



Architectural Terra Cotta

A brief synopsis of the manufacture of Architectural Terra Cotta in the sequence of the various operations

- Drawings** The Architect's complete scale drawings are furnished the Manufacturer, who, following the design, makes jointing construction drawings and full size details to the proper shrinkage dimensions. These drawings are submitted to the Architect for approval before proceeding with the work.
- Decoration** From the Architect's drawings or sketches, in the style or period indicated, the ornamental clay models are made; this while the clay is in its most plastic and receptive state. Photographs of the ornamental models are submitted to Architect for approval or he may personally examine models at the factory—the soft clay permits any corrections or improvements which may subsequently be desired.
- Models—Moulds** Models are made of plaster of paris to shrinkage scale and to the dimensions required by the jointing drawings. Over these models sectional moulds of plaster of paris are cast, from which later the required number of Terra Cotta pieces are produced.
- Clay** The various clays and fusible minerals used in forming the Terra Cotta body are most carefully selected for their plasticity and binding qualities and must be of a nature which, when fired at high temperature, will form a homogeneous body amply strong to carry the required structural loads, and to resist the action of those elements which attack all exposed surfaces.
- Pressing** The foregoing processes are entirely preparatory to actual production, the first step of which is Pressing. This is entirely a hand operation and consists of pressing the plastic clay into the mould usually in a layer having a uniform thickness of about $1\frac{1}{4}$ inch; following the contour of the mould, strengthening ribs of clay being inserted at intervals of approximately 6 inches. The mould is removed and the piece of Terra Cotta skillfully retouched and placed in specially constructed driers where the surplus moisture is evaporated.
- Color** After the drying process, the Terra Cotta passes into the slipping or spraying department where, by means of compressed air apparatus, the exposed surfaces are coated with the ceramic liquid mixture which, during the firing process following, develops into the desired color or glaze. These colors or glazes are prepared with scrupulous care, according to exact ceramic formulae. The variety of shades and textures which may be obtained opens up an unlimited field of permanent color design in architecture which has, as yet, been scarcely entered.
- Firing** After the color process, the Terra Cotta is placed in large kilns where it is subjected to a temperature rising gradually to 2000 degrees Fahrenheit or more, depending upon the point of maturity of the clay body or glaze; after this temperature is reached the kiln is slowly cooled to normal. The time required to charge, fire and discharge a kiln is about two weeks.
- Fitting** After firing, the Terra Cotta is removed to the fitting department, where it is laid out and marked according to the numbers on the jointing drawings and the place it is to occupy in the building. Where required, the joints are squared and cut to accurate alignment, either by hand or ground to size by the rubbing-bed process. Careful fitting is essential to insure satisfactory results in the erected Terra Cotta.
- Shipping** For rail transportation, Terra Cotta is usually shipped in bulk, securely packed in hay and braced to prevent shifting; when properly packed, damage in transit is negligible. For export by vessel it is usually necessary to pack in crates or hogsheads, according to the special conditions encountered. Upon arrival at the building site the hay should be removed and the Terra Cotta placed in the order marked, in piles on wooden strips.
- Erection** The appearance of Architectural Terra Cotta is greatly affected by inaccurate setting and poor pointing. As the individual pieces of Terra Cotta are fitted and numbered to correspond with the erection drawings, these numbers **MUST BE FOLLOWED**.
- Time** The Terra Cotta manufacturer will contract to submit jointing drawings for approval within a fixed time after receipt of Architect's drawings and the required information. All shipping dates are computed from the receipt by the manufacturer of these approved drawings. The process of manufacture takes from five to ten weeks, depending upon the size and nature of the order.
- Contract** A standard form of contract especially covering the manufacture of Architectural Terra Cotta has been adopted by the NATIONAL TERRA COTTA SOCIETY, and is recommended for general use.

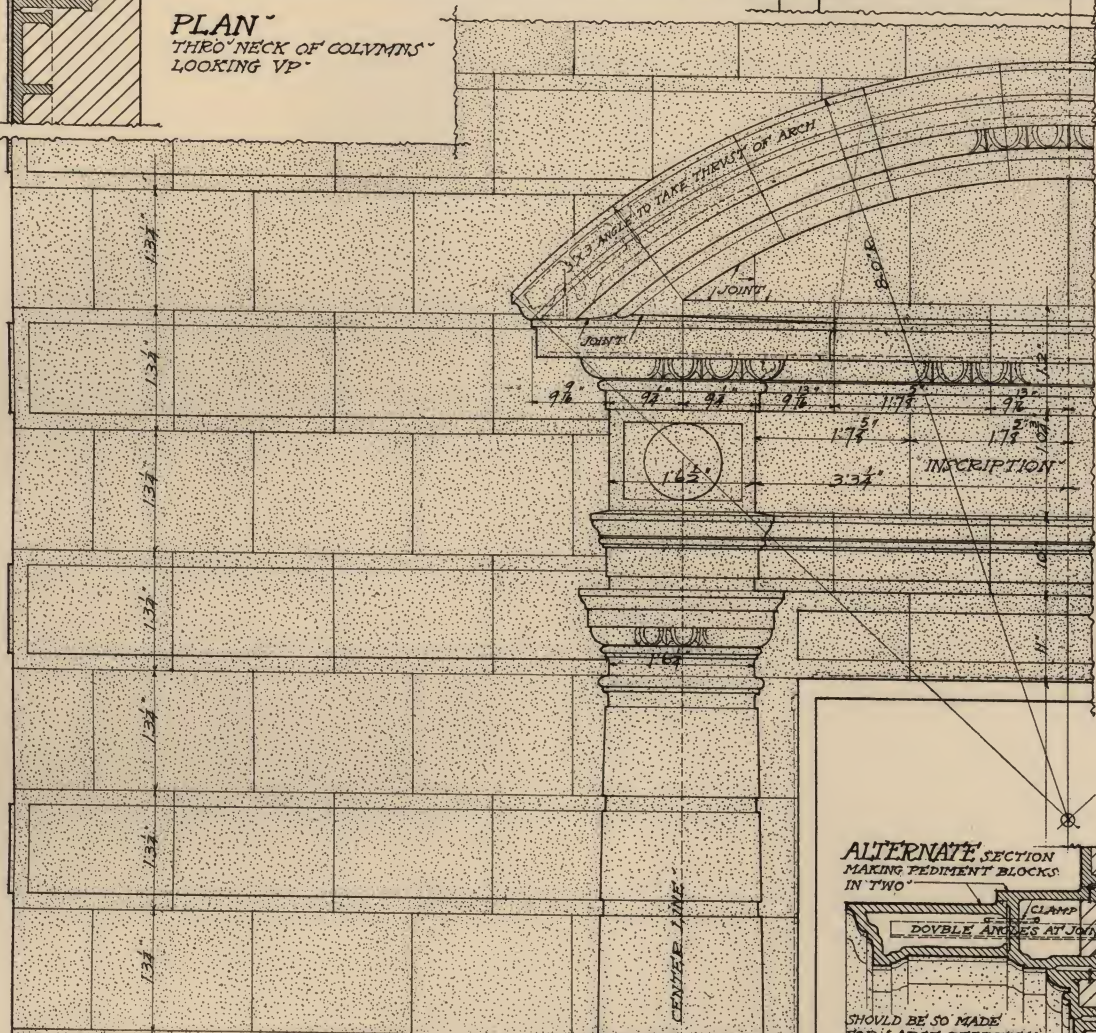
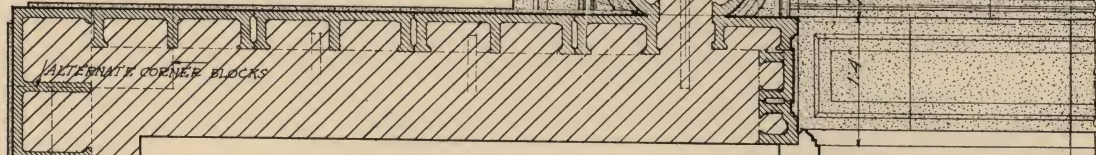
Architectural Terra Cotta factories are conveniently located in the Eastern, Central and Western sections of the United States (see list in back). Every Architect or Designer interested should visit one of these plants. He will always find a hearty welcome.



ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

ENTRANCE · WITH ENGAGED COLUMNS · WITH SEMI-CIRCULAR PEDIMENT · WITH RUSTICATED ASHLAR ·

ENGAGED COLUMNS SHOULD BE JOINTED AT WALL ·
AT POINT OF ENGAGEMENT TO PREVENT UNEQUAL
SHRINKAGE AND TO ALLOW ADJUSTMENT IN ALIGNMENT



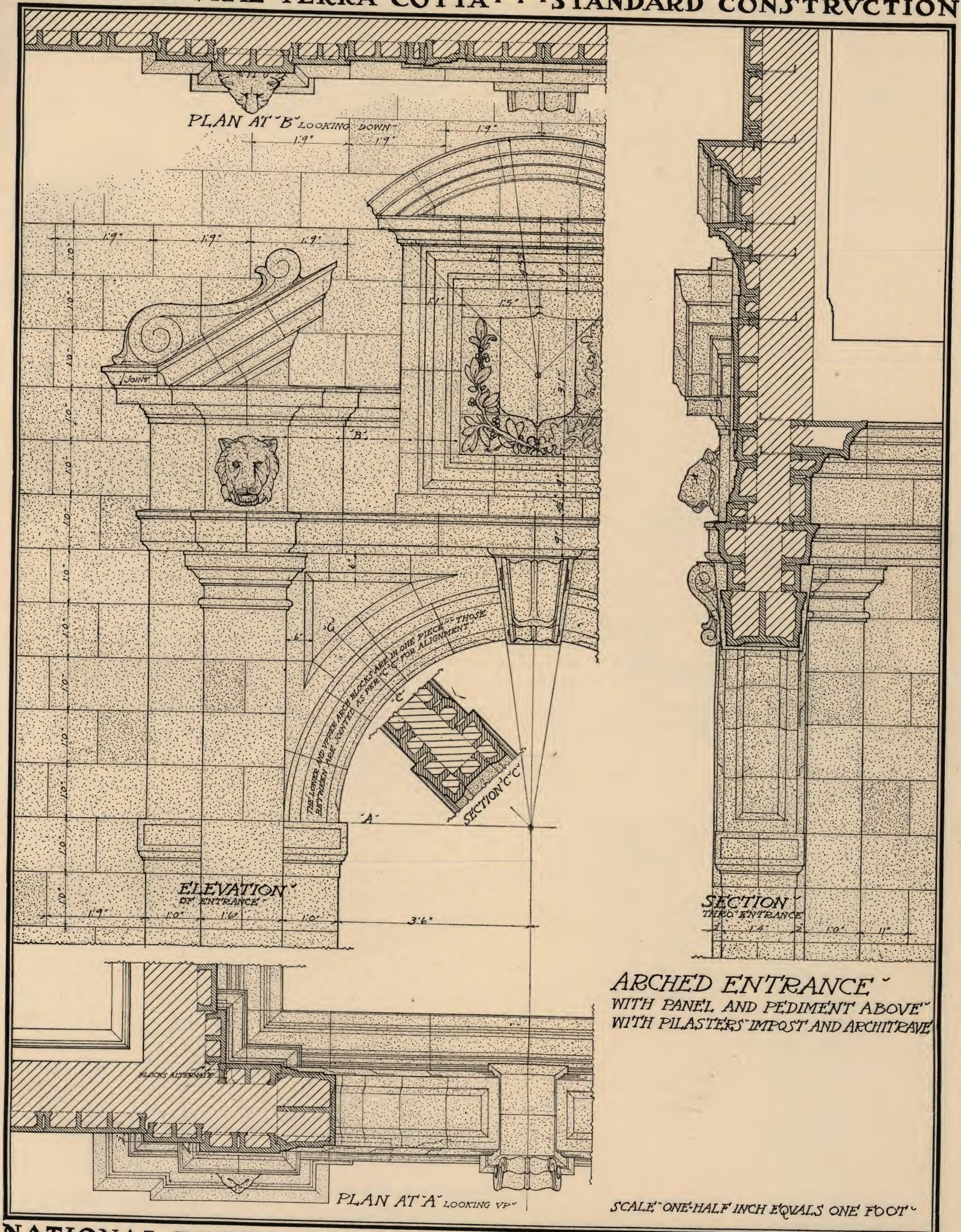
RUSTICATION ON COLUMNS TENDS TO ·
CONCEAL HORIZONTAL JOINTS AND
PERMITS OF LARGER DEVS WITHOUT VERTICAL JOINTS

SECTION · ON CENTER LINE ·

JAMB JOINTED VERTICALLY ·
TO ALLOW ADJUSTMENT
IN ALIGNMENT IN SETTING ·
SEE PLAN ·

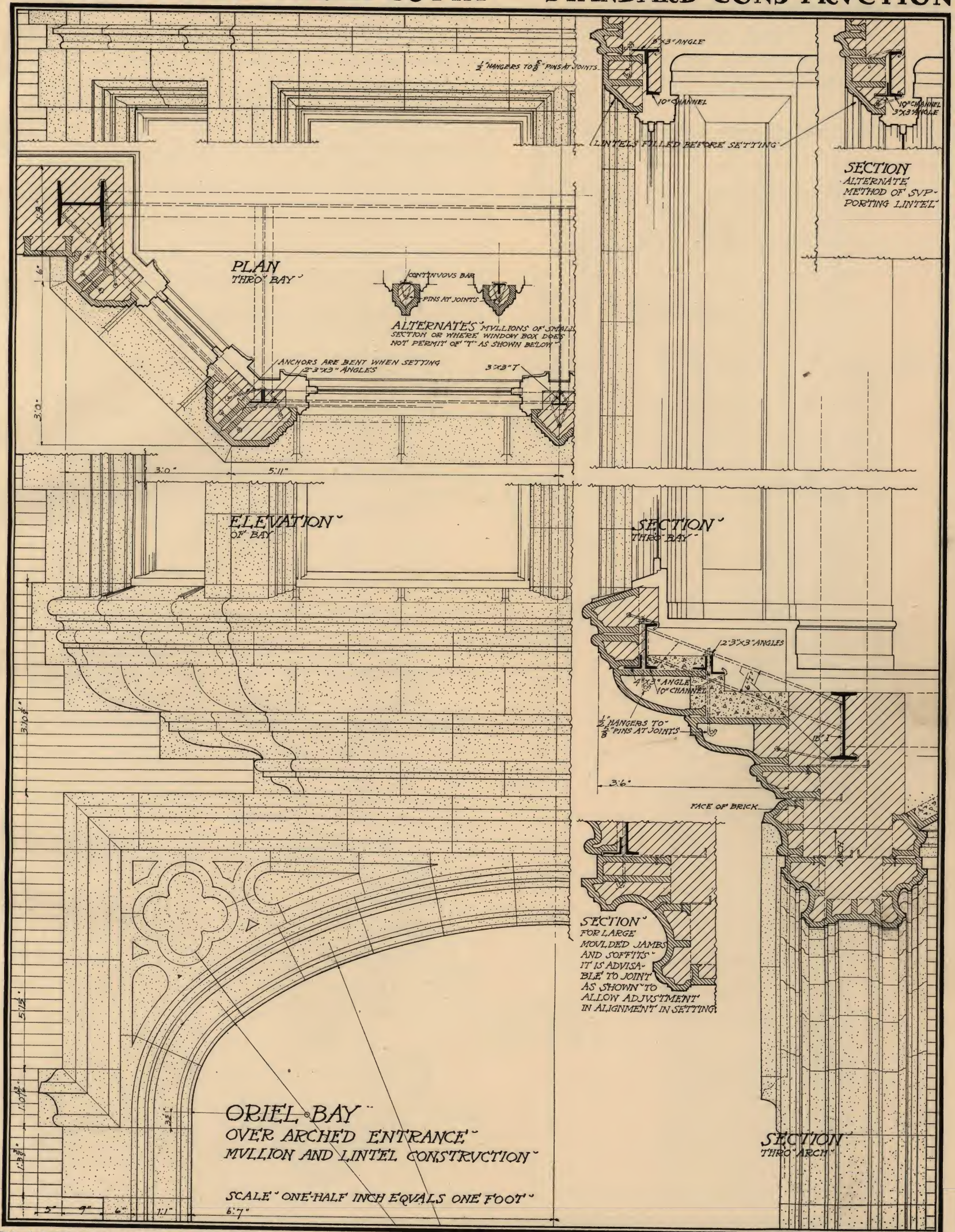
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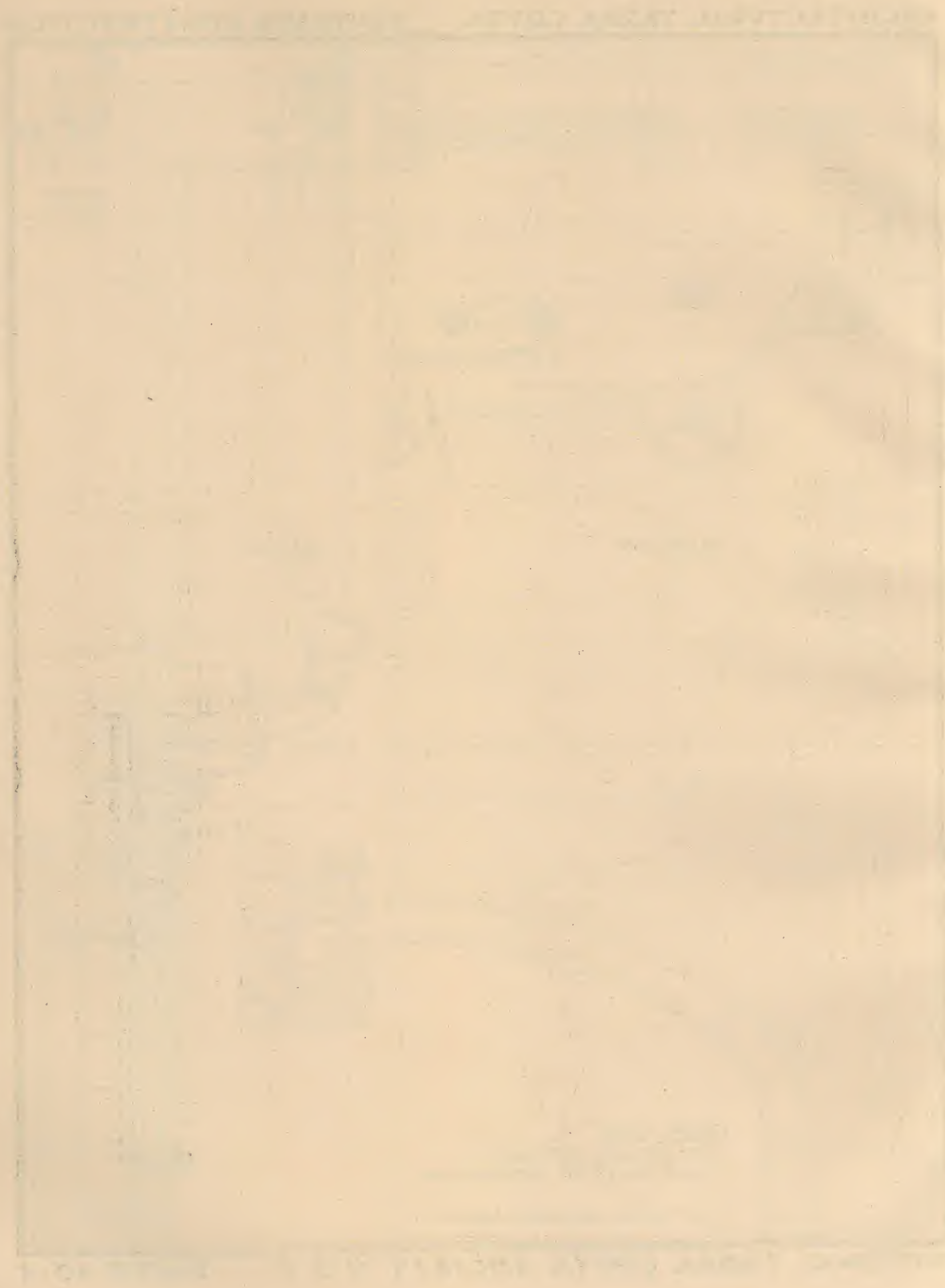
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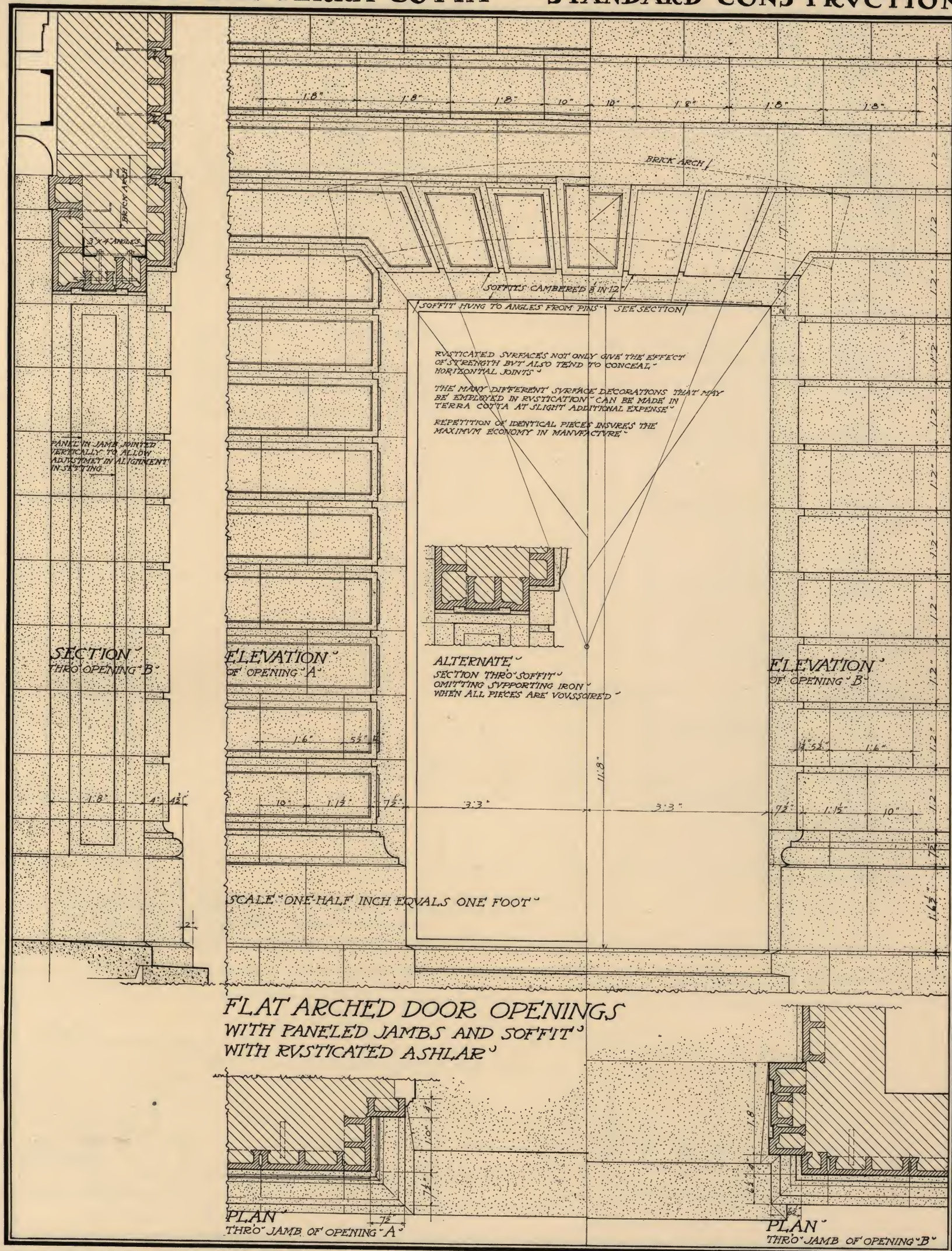




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1' 10 1/2" 1' 10 1/2" 1' 10 1/2" 1' 10 1/2" 1' 10 1/2"

BRICK ARCH

RUSTICATED SURFACES NOT ONLY GIVE THE EFFECT OF STRENGTH BUT ALSO TEND TO CONCEAL HORIZONTAL JOINTS

THE MANY DIFFERENT SURFACE DECORATIONS THAT MAY BE EMPLOYED IN RUSTICATION CAN BE MADE IN TERRA COTTA AT SLIGHT ADDITIONAL EXPENSE

REPETITION OF IDENTICAL PIECES INSURES THE MAXIMUM ECONOMY IN MANUFACTURE

8 1/2"

ELEVATION OPENING A

ELEVATION OPENING B

SECTION OPENING B

8 1/2" 6" 8" 3' 9" 7' 6" 3' 9" 8" 6" 8 1/2" 1' 9" 6" 1' 10"

5' 5 1/2"

SEGMENT ARCHED DOOR OPENINGS WITH MOULDED JAMBS AND SOFFITS WITH RUSTICATED SURFACE HAVING HORIZONTAL AND VERTICAL V JOINTS

PLAN THRO' JAMB OF OPENING A

PLAN THRO' JAMB OF OPENING B

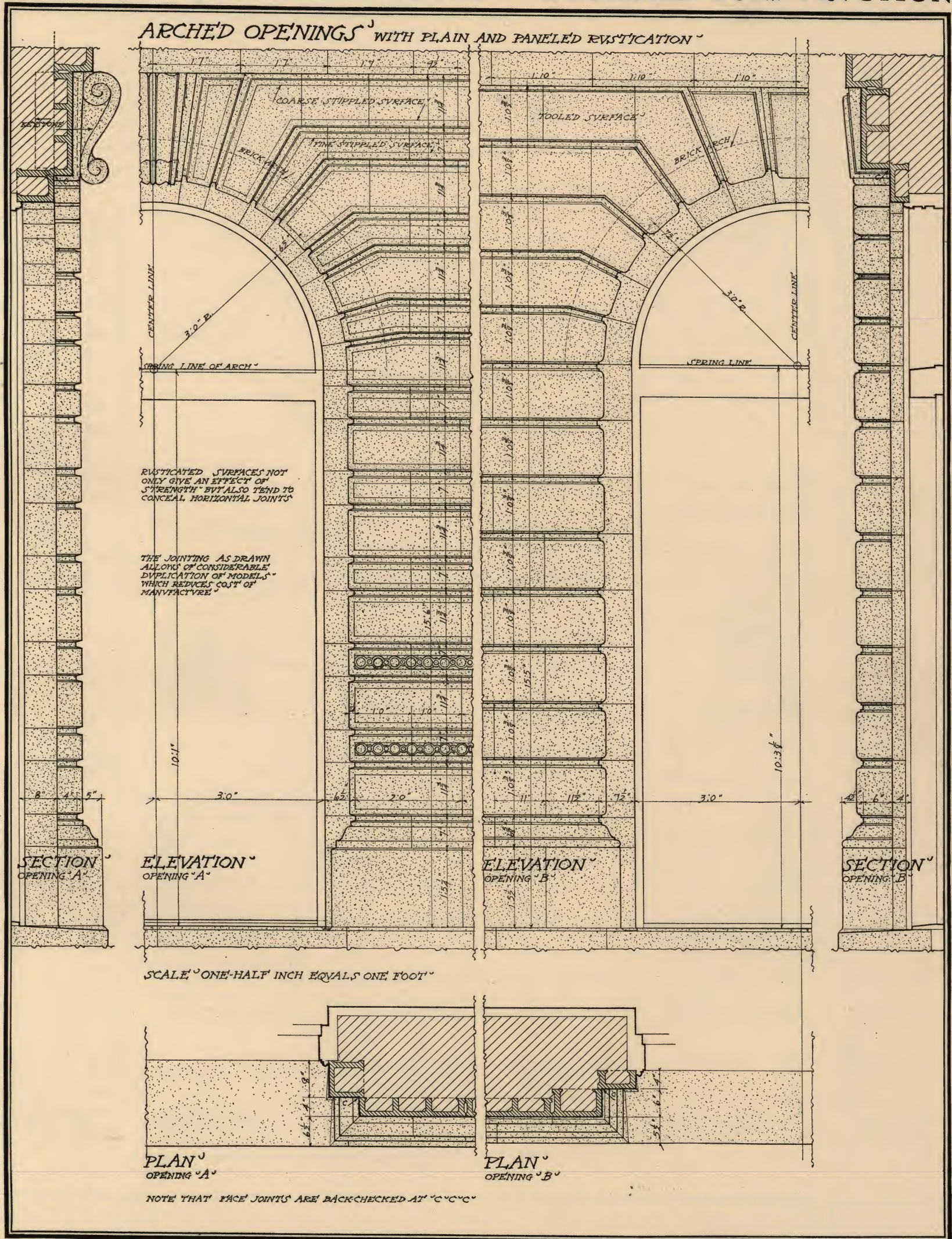
SCALE ONE-HALF INCH EQUALS ONE FOOT

JOINT IN TRIM TENDS TO PREVENT UNEQUAL SHRINKAGE AND ALLOWS ADJUSTMENT IN ALIGNMENT

6" 8" 3' 9" 3' 9" 8" 6" 2' 7"



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ARCHED DOOR OPENINGS WITH RUSTICATED ASHLAR WITH TRANSOM LINTELS

SHOWING JAMB AND LINTEL CONSTRUCTION
MOULDED IMPOST AND ARCHITRAVE
WITH CARTOUCHE

The drawings include:

- ELEVATION A:** Shows the exterior view of Opening A with a semi-circular arch. The arch has a radius of 3'-0". The masonry is rusticated ashlar. Above the arch is a transom lintel supported by a carved cartouche. Dimensions include a total height of 11'-2" and a width of 6'-0".
- SECTION A:** A vertical cross-section through the jamb of Opening A, showing the internal structure of the wall and the placement of the lintel.
- PLAN A:** A horizontal section through the jamb of Opening A, showing the thickness of the wall and the position of the lintel.
- ELEVATION B:** Similar to Elevation A, but for Opening B, which features a different profile for the impost and architrave.
- SECTION B:** A vertical cross-section through the jamb of Opening B.
- PLAN B:** A horizontal section through the jamb of Opening B.

Additional details and notes:

- THE SURFACE OF RUSTICATION MAY BE EITHER TOOLED OR STIPPLED.**
- BACK-ARCH**: Indicated on the right side of the arch.
- CARTOUCHE AND KEY**: Located above the arch of Opening A.
- BRILLIANT**: Note near the top left corner.
- 2' x 2' ANGLES**: Specified for the lintel construction.
- NOTE SUPPORT AND ANCHORAGE OF TRANSOM LINTELS**.
- ALTERNATE LINTEL CONSTRUCTION**: Shown as a detail with dimensions 1'-3" and 1'-0".
- PANELED JAMB JOINED VERTICALLY TO ALLOW ADJUSTMENT IN ALIGNMENT IN SETTING**.
- SCALE - ONE-HALF INCH = EQUALS ONE FOOT**.



ARCHED OPENINGS -
WITH MOULDED AND ORNAMENTED TRIM -
WITH BRICK FIELD -

JOINTS IN TRIM TEND TO PREVENT UNEQUAL SHRINKAGE AND ALLOW ADJUSTMENT IN ALIGNMENT IN SETTING

ATTENTION IS CALLED TO -
THE REPETITION OF PIECES IN THE WORK SHOWN -
THIS GIVES THE MAXIMUM ECONOMY IN MANUFACTURE -

SECTION B -

ELEVATION A -

ELEVATION B -

SECTION A -

SCALE - ONE-HALF INCH EQUALS ONE FOOT -

PLAN A -

PLAN B -

WHERE PRACTICABLE, FACE JOINTS ARE CONCEALED BY BACK JOINTING AS AT



ARCHED OPENINGS AND TICKET WINDOW WITH MOVLDED AND ORNAMENTED TRIM

ELEVATION OPENING "A"

ELEVATION OPENING "B" AND TICKET WINDOW

SECTION THRO' TICKET WINDOW

PLAN THRO' JAMB OPENING "A"

PLAN THRO' JAMB AND TICKET WINDOW OPENING "B"

SCALE ONE-HALF INCH EQUALS ONE FOOT

SUGGESTED COLOR SCHEME

FIELD "WHITE"
TRIM "CREAM"
PANELS "WHITE"
ROSETTES "ORANGE"

SUGGESTED COLOR SCHEME

FIELD "CREAM"
TRIM "WHITE"
ORNAMENT "Moss Green"
BACKGROUND "BLUE"
ROSETTES "CREAM"

LIGHT COLORED GLAZED TERRA COTTA IS PARTICULARLY ADAPTED FOR INTERIORS OF THIS CHARACTER. REFLECTS A MAXIMUM AMOUNT OF LIGHT. HAS A FIXED UNCHANGING COLOR. REQUIRES LITTLE EFFORT TO KEEP IN PERFECT SANITARY CONDITION.

THE ROSETTES ARE MADE SEPARATE TO AVOID JOINTING THRO' CENTER

12" 3" X 2" ANGLES

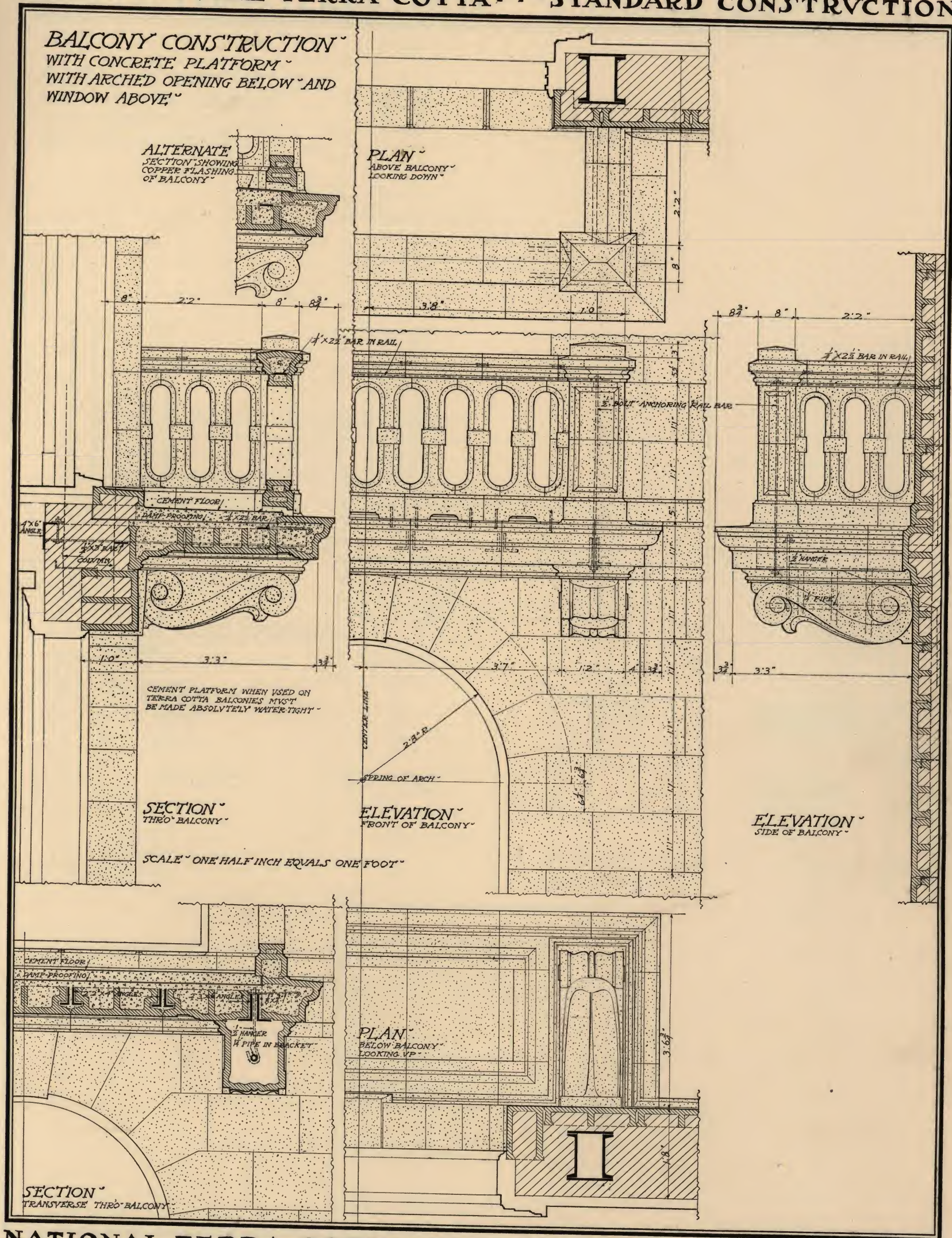
BAGGAGE REST

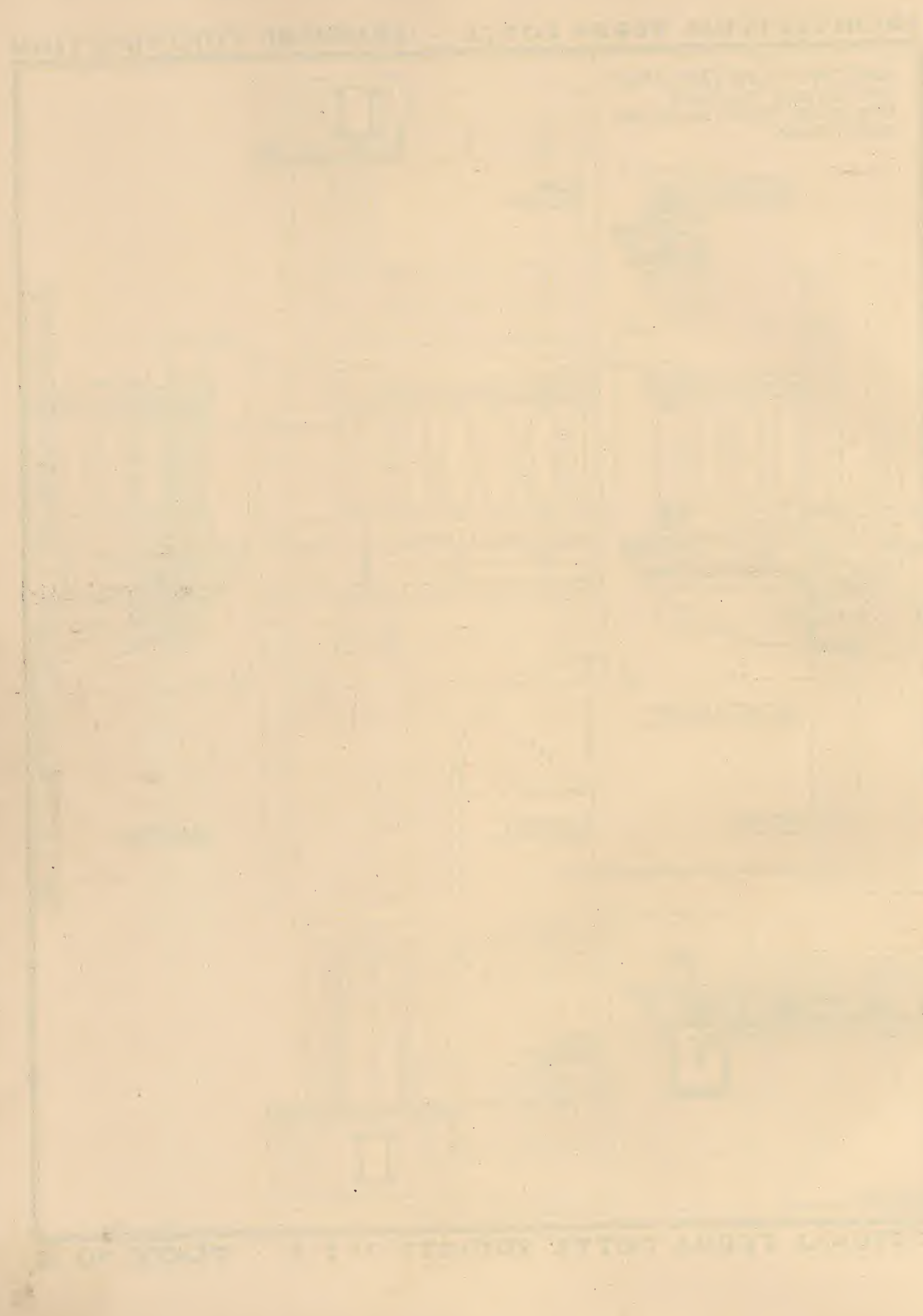
GLASS

ALTERNATE JOINTING OF JAMB



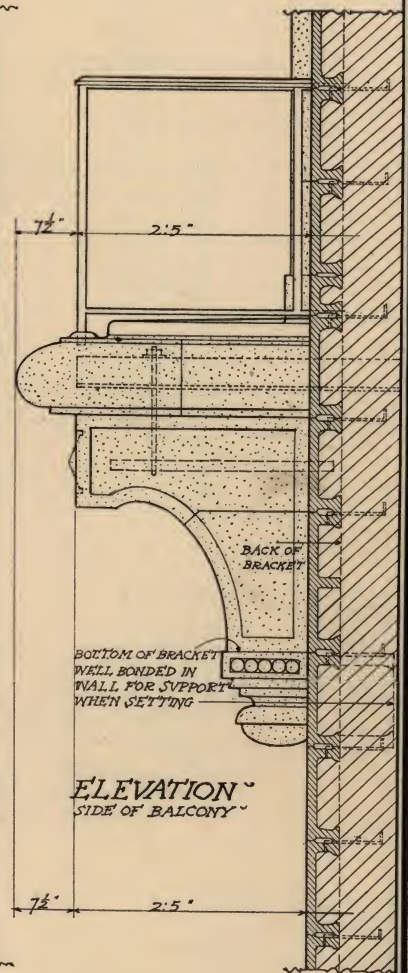
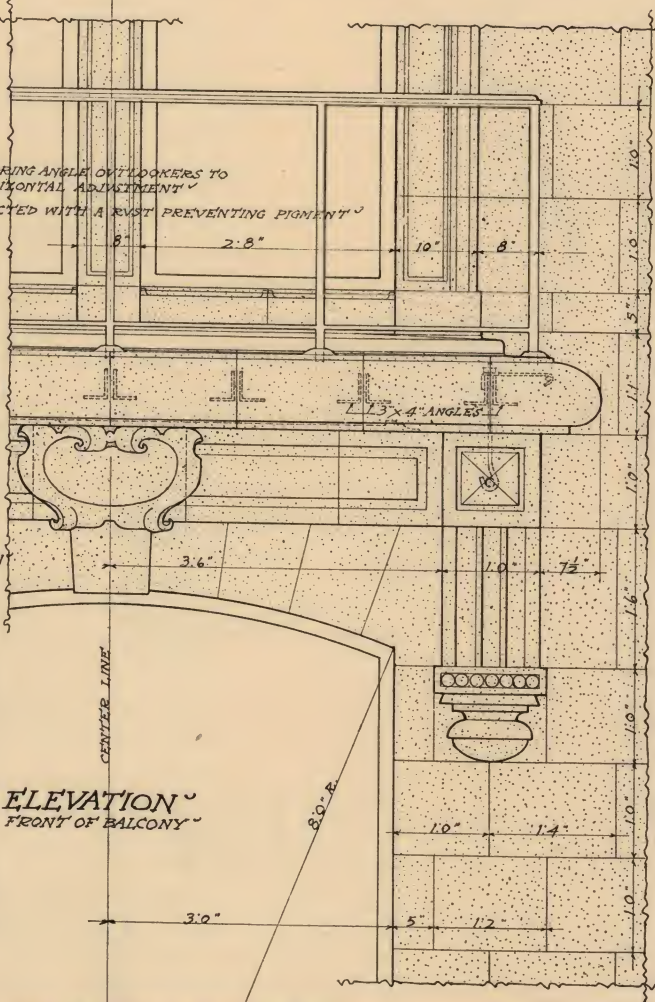
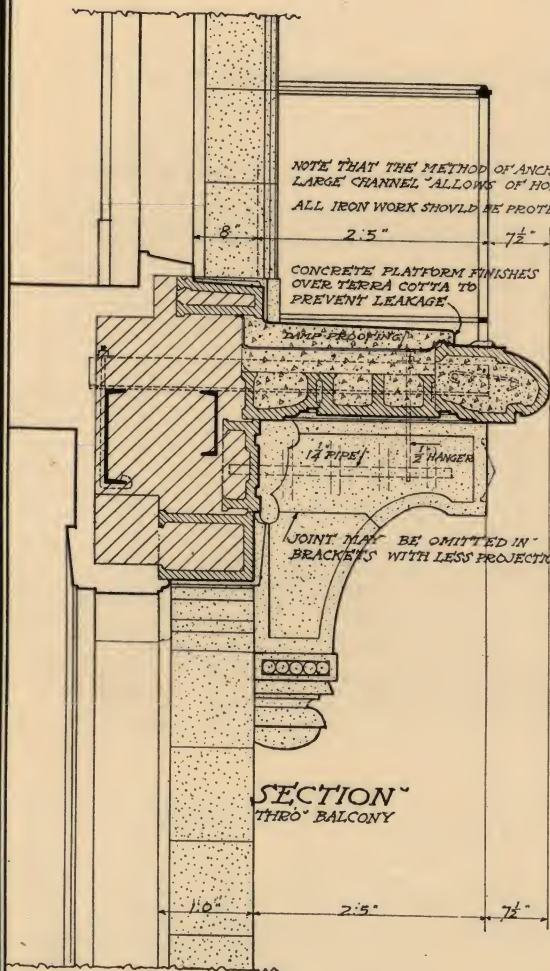
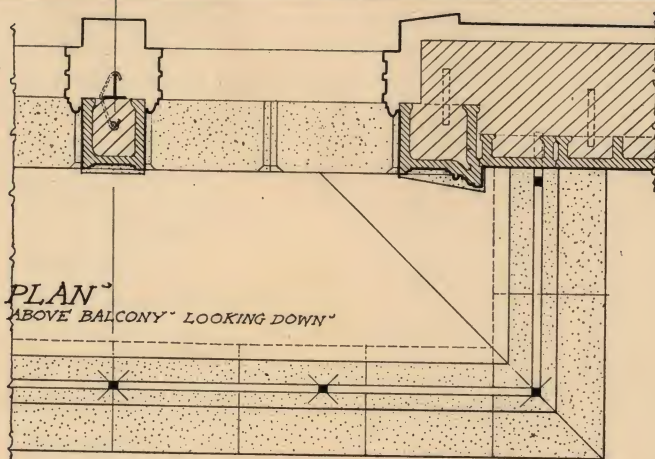
STANDARD CONSTRUCTION



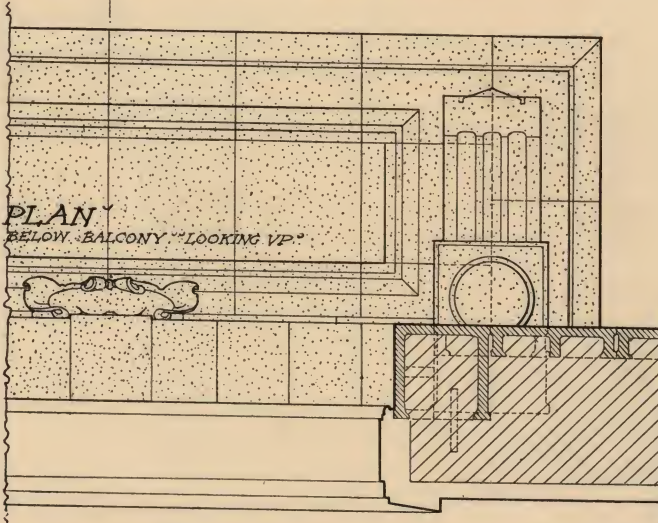


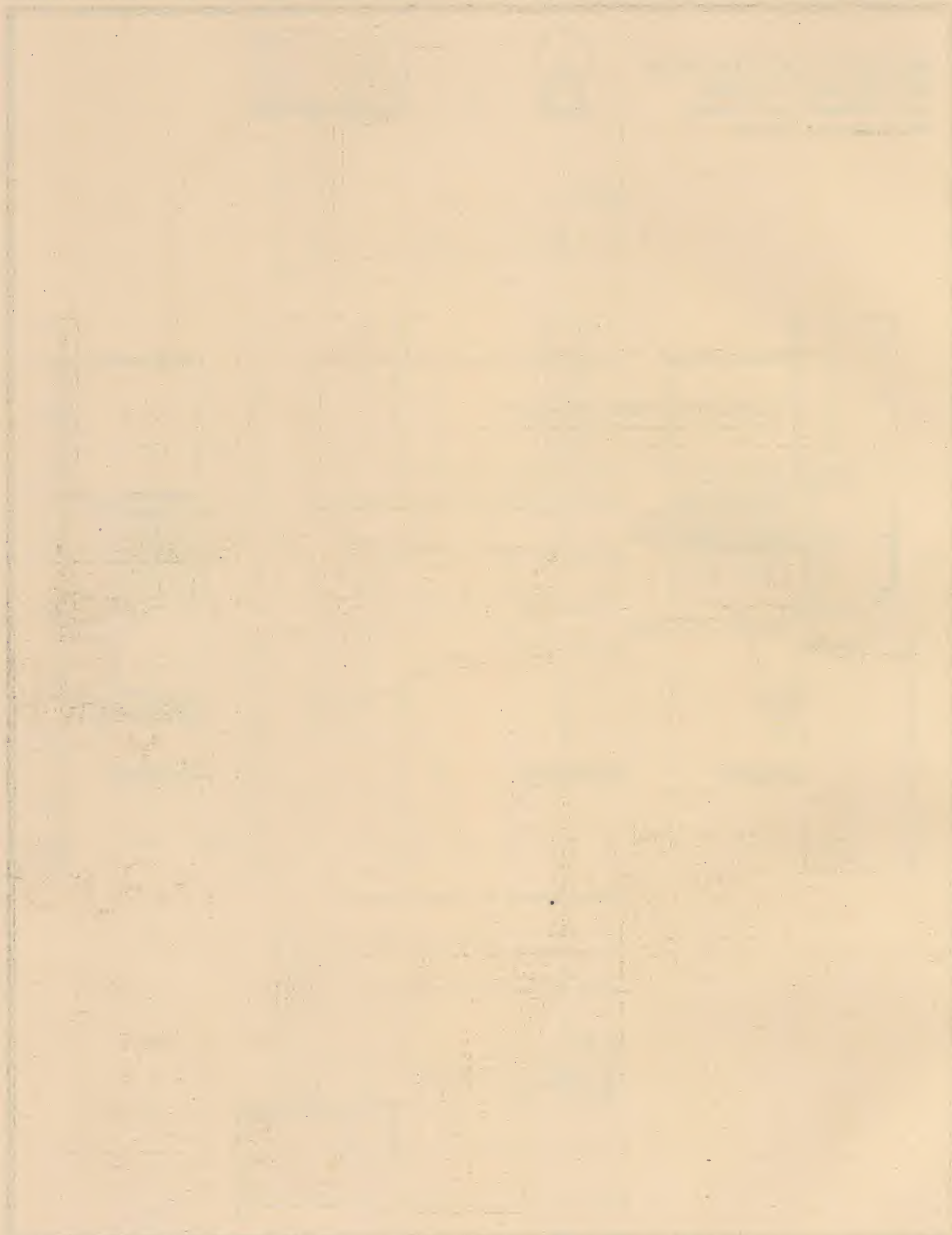
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BALCONY CONSTRUCTION WITH CONCRETE PLATFORM WITH SEGMENT ARCH UNDER AND WINDOWS ABOVE



SCALE ONE-HALF INCH EQUALS ONE FOOT





BALCONY CONSTRUCTION

THREE EXAMPLES

SHOWING SUPPORT AND ANCHORAGE

SCALE THREE-EIGHTHS OF AN INCH EQUALS ONE FOOT

SMALL RAILS MAY BE SECURED BY CONTINUOUS PIPE OR ROD ANCHORED AT ENDS

BALUSTERS SHOULD BE SOLIDLY GROTTED WITH CEMENT WHERE THIS IS IMPRACTICABLE THE JOINTS SHOULD BE JO-BEDDED IN CEMENT AS TO PREVENT LEAKAGE AND POSSIBLE DAMAGE FROM FROSTS

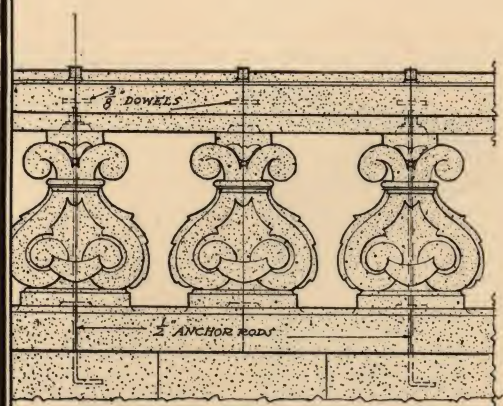
The image contains three sets of architectural drawings, each representing a different balcony construction method. Each set includes a plan view, a section view, and an elevation view, along with detailed annotations and dimensions.

- Example A:** Features a plan view showing a balcony with a decorative railing and a section view showing the support structure. The elevation view shows the balcony's profile with a decorative railing and a section view showing the support structure.
- Example B:** Features a plan view showing a balcony with a decorative railing and a section view showing the support structure. The elevation view shows the balcony's profile with a decorative railing and a section view showing the support structure.
- Example C:** Features a plan view showing a balcony with a decorative railing and a section view showing the support structure. The elevation view shows the balcony's profile with a decorative railing and a section view showing the support structure.

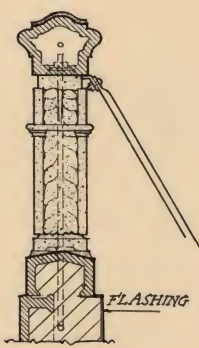
Architectural drawings showing three examples of balcony construction, including plans, sections, and elevations, with detailed annotations and dimensions.

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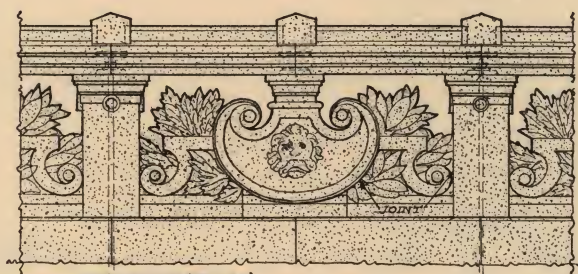
BALUSTRADES SHOWING VARIOUS TYPES OF FILLING



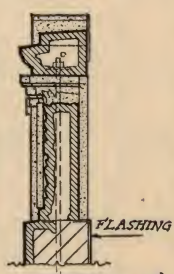
ELEVATION
OF BALUSTRADE "A"



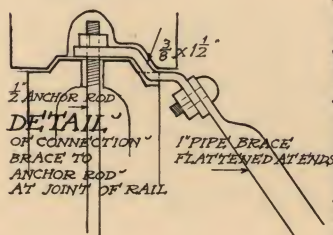
SECTION
THRO' "A"



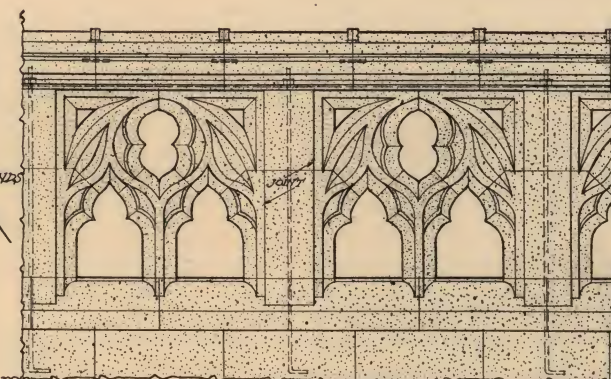
ELEVATION
OF BALUSTRADE "D"



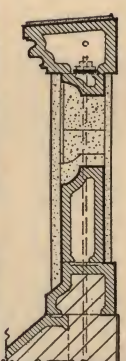
SECTION
THRO' "D"



DETAIL
OF CONNECTION
BRACE TO
ANCHOR ROD
AT JOINT OF RAIL

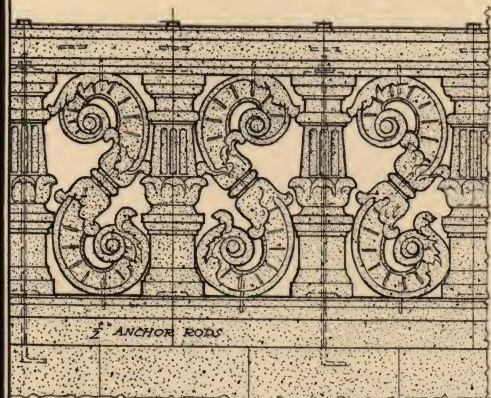


ELEVATION
OF BALUSTRADE "E"

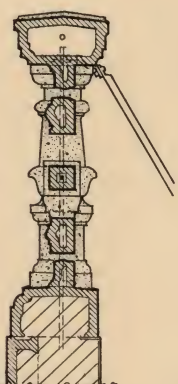


SECTION
THRO' "E"

SCALE "ONE-HALF" INCH EQUALS ONE FOOT

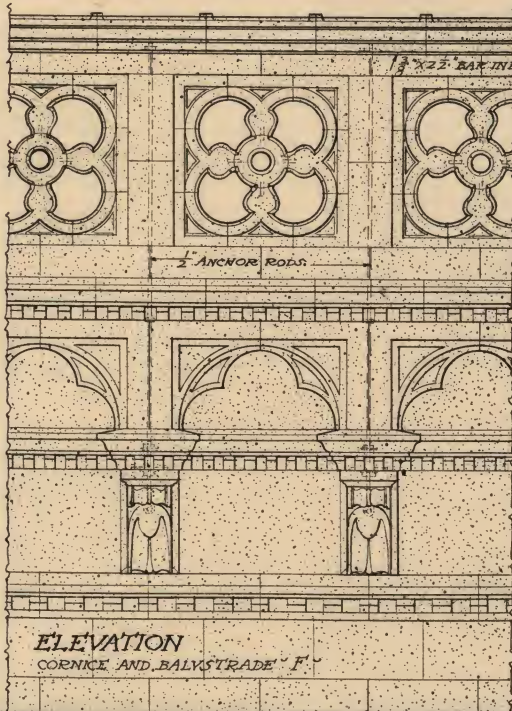


ELEVATION
OF BALUSTRADE "B"

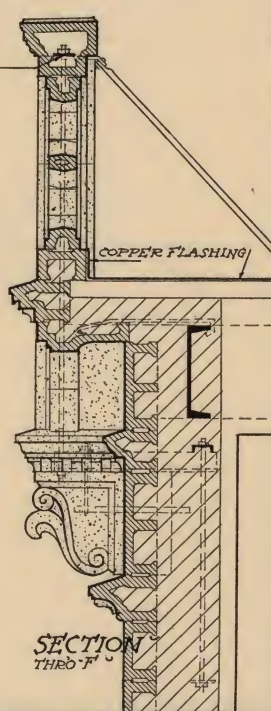


SECTION
THRO' "B"

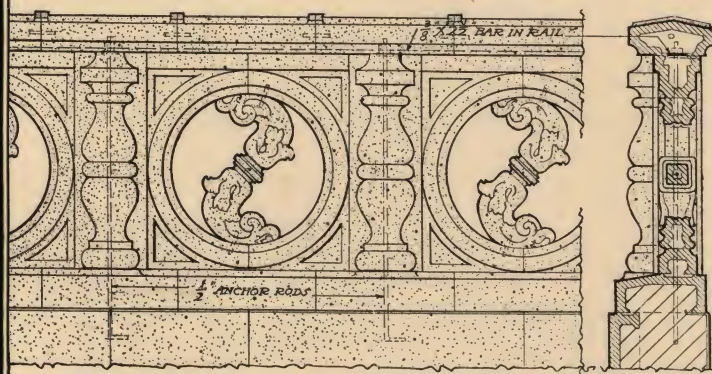
LIGHT AND HIGH BALUSTRADES WHERE NOT ANCHORED WITH PIERS AT SHORT INTERVALS SHOULD BE BRACED AS SHOWN



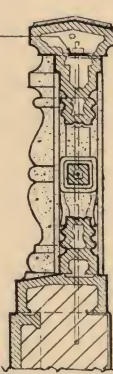
ELEVATION
CORNER AND BALUSTRADE "F"



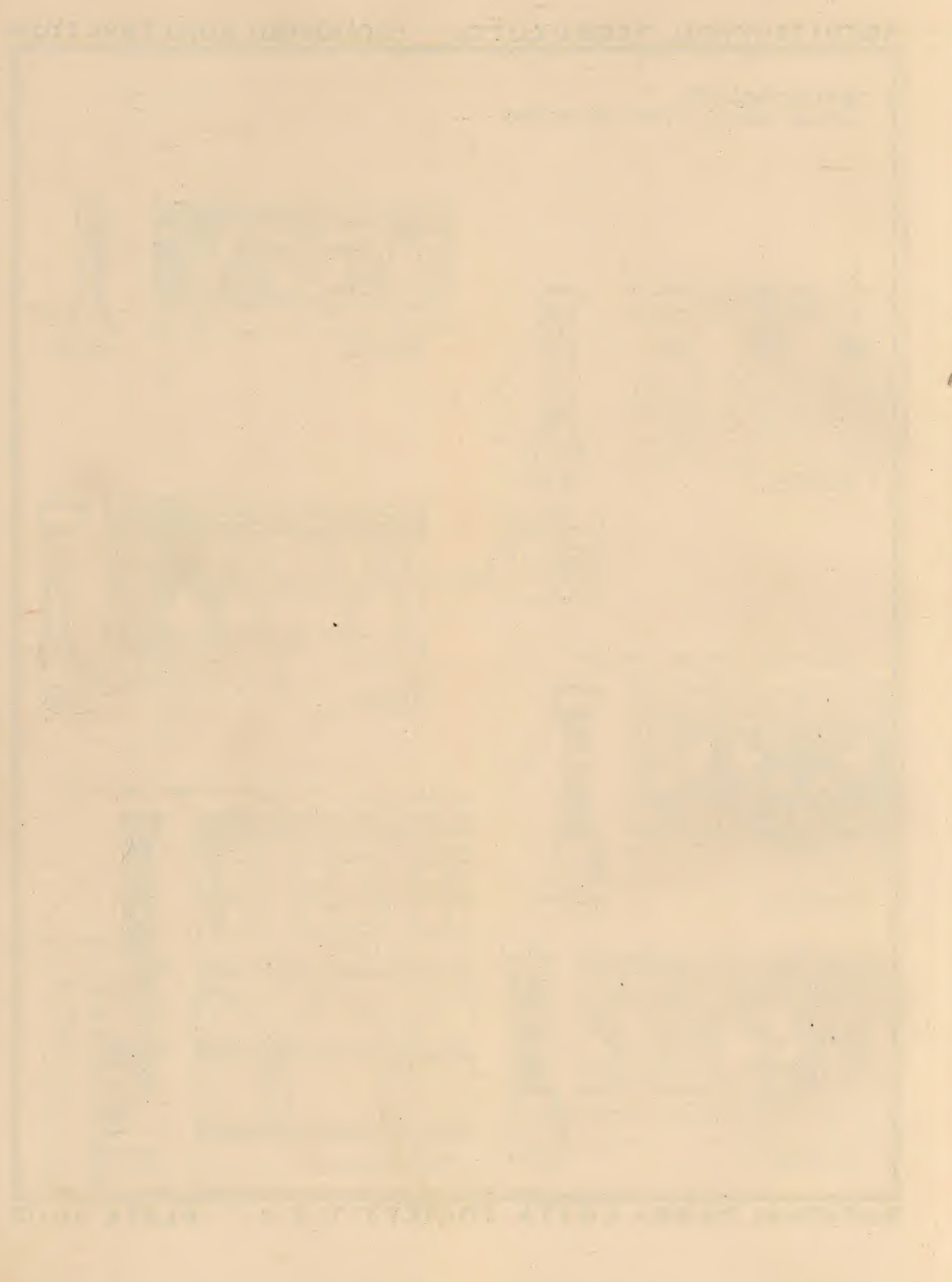
SECTION
THRO' "F"



ELEVATION
OF BALUSTRADE "C"



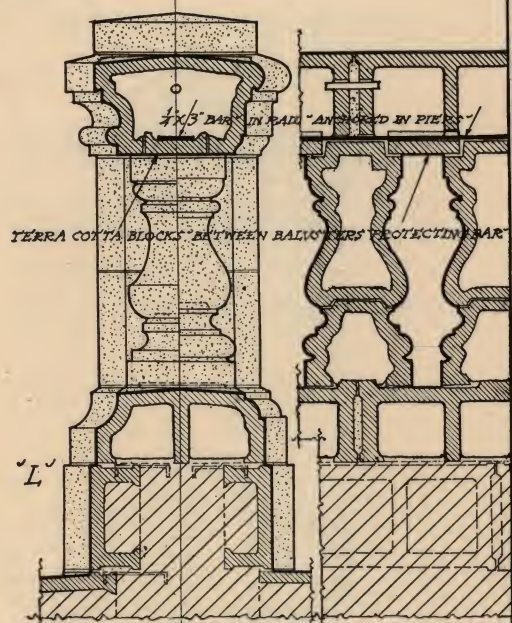
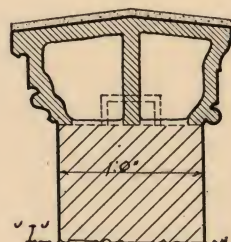
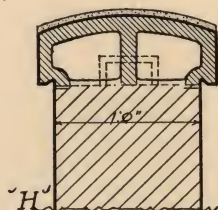
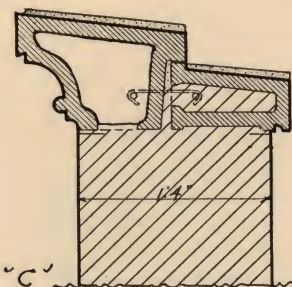
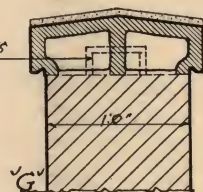
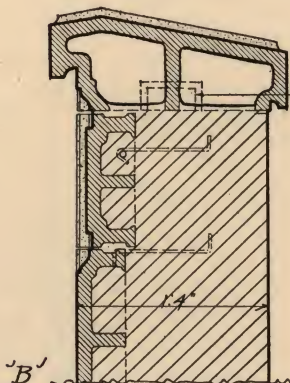
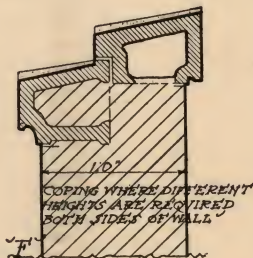
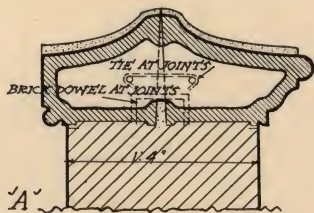
SECTION
THRO' "C"



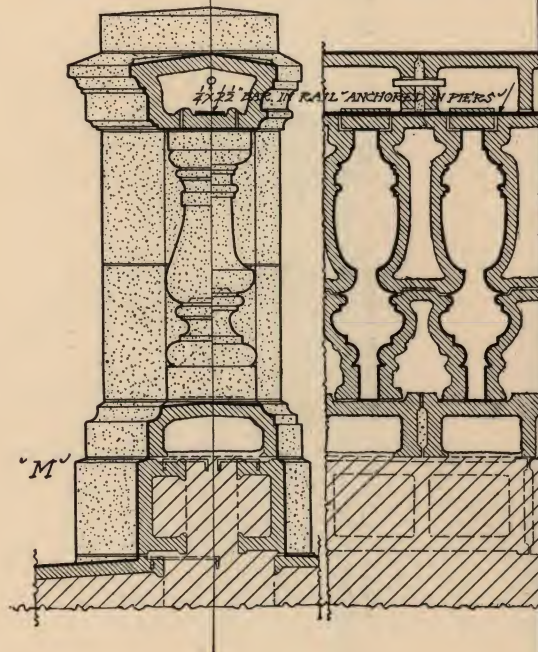
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WALL COPINGS AND BALUSTRADES

SHOWING VARIOUS METHODS OF JOINTING AND ANCHORING

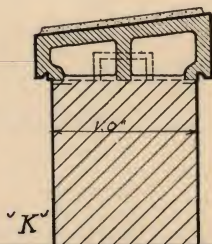
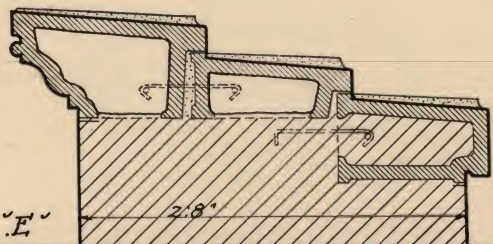


WHERE BALUSTERS ARE OF SUFFICIENT DIAMETER DOWELS AS SHOWN SHOULD BE PROVIDED IRON ANCHOR RODS BEING UNNECESSARY WHERE OTHERWISE PROVIDE RODS AS ON PLATES NO 25 AND 26



COPINGS FOR WALLS UP TO 20" IN THICKNESS MAY BE SAFELY MADE IN ONE PIECE FOR WALLS 20" TO 36" IN THICKNESS IN TWO PIECES AND FOR WALLS ABOVE 36" IN THICKNESS IN THREE OR MORE PIECES AS REQUIRED

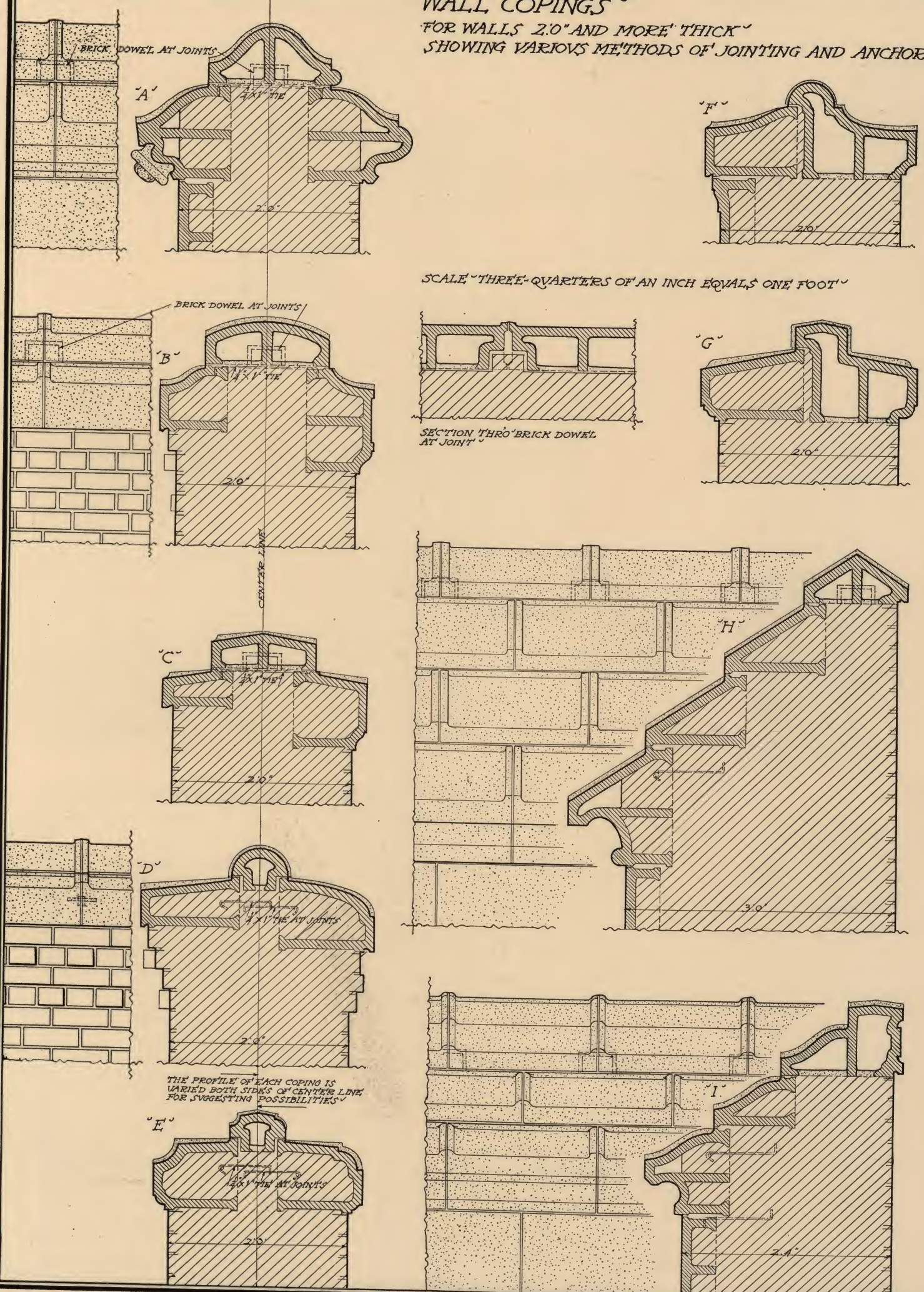
SCALE THREE-QUARTERS OF AN INCH EQUALS ONE FOOT





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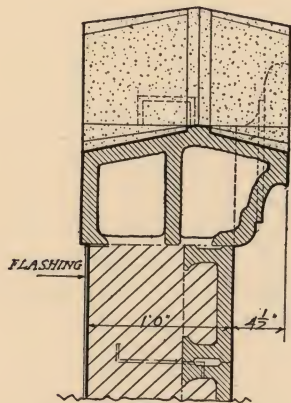
WALL COPINGS ~
 FOR WALLS 2.0" AND MORE THICK ~
 SHOWING VARIOUS METHODS OF JOINTING AND ANCHORING ~



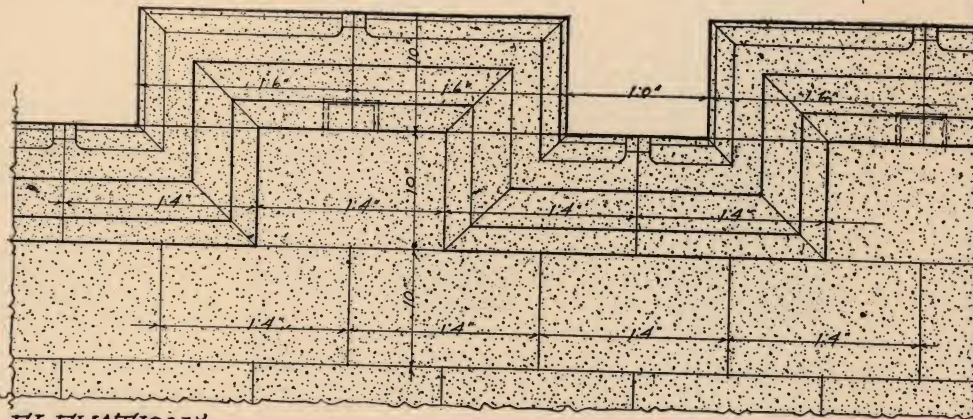


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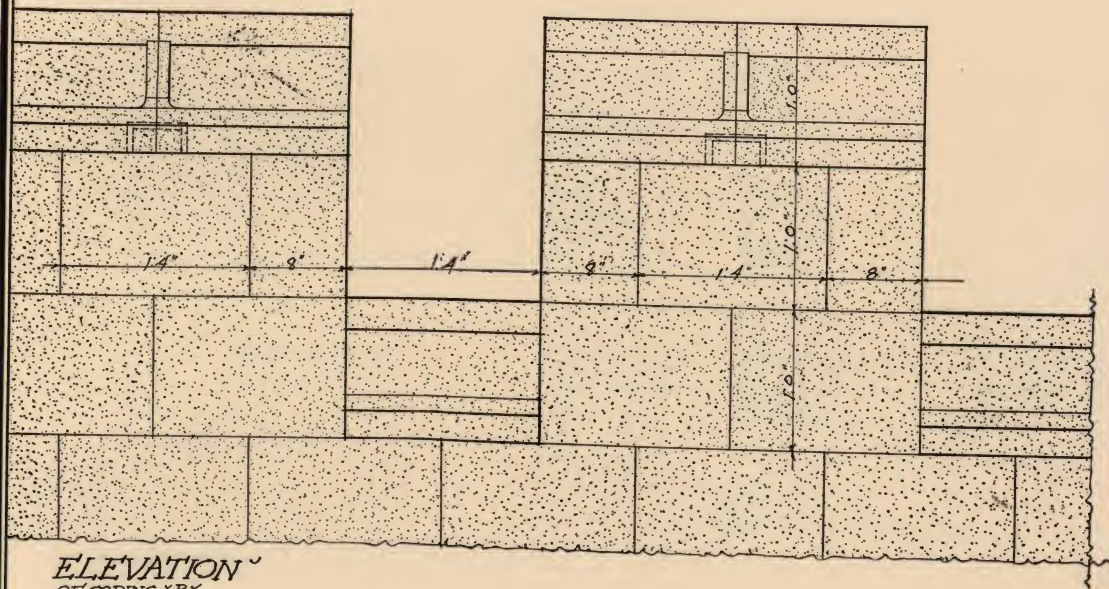
BUTTRESS AND BATTLEMENTED COPING



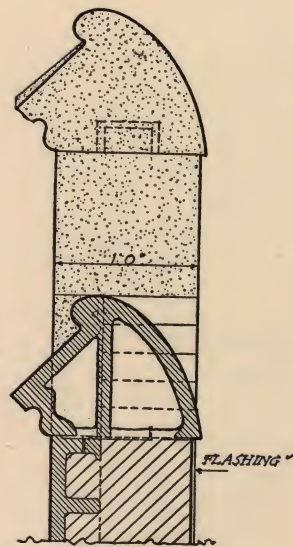
SECTION
THRO' COPING "A"



ELEVATION
OF COPING "A"

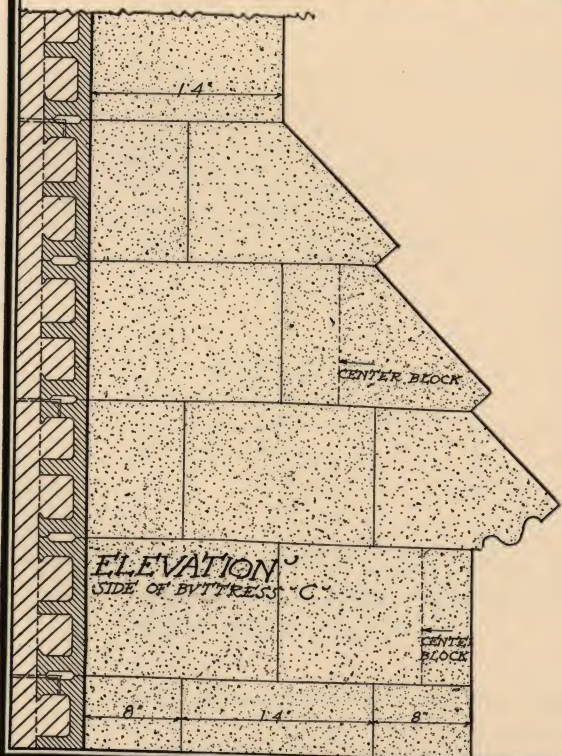


ELEVATION
OF COPING "B"

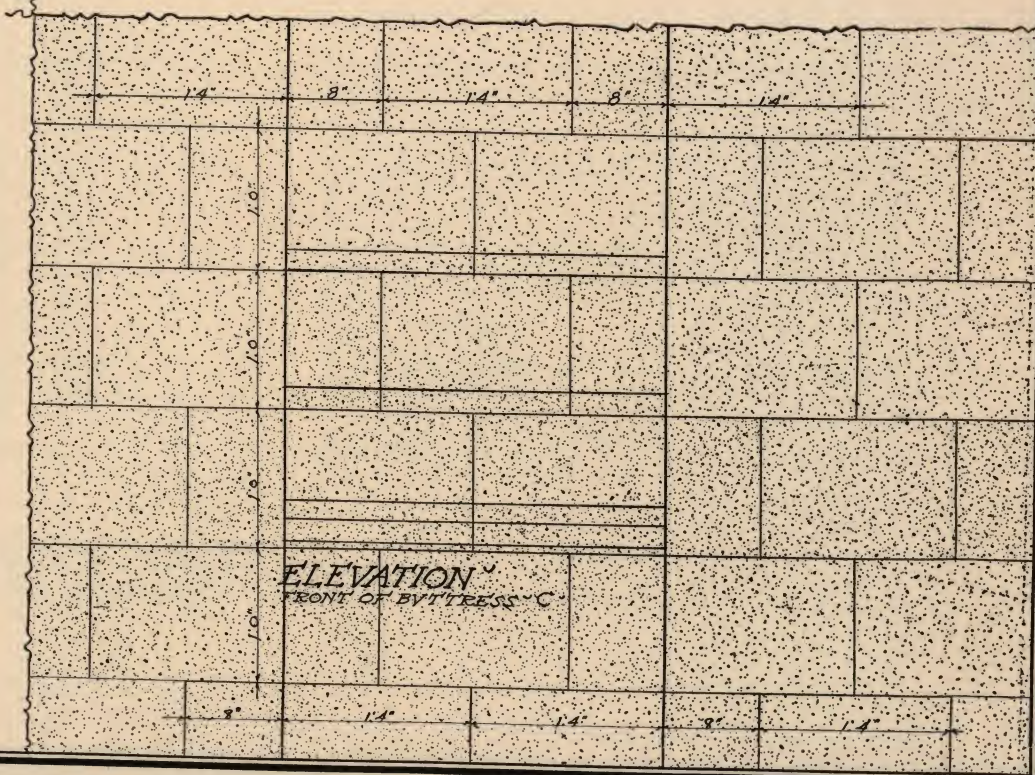


SECTION
THRO' COPING "B"

SCALE · THREE-QUARTERS OF AN INCH EQUALS ONE FOOT



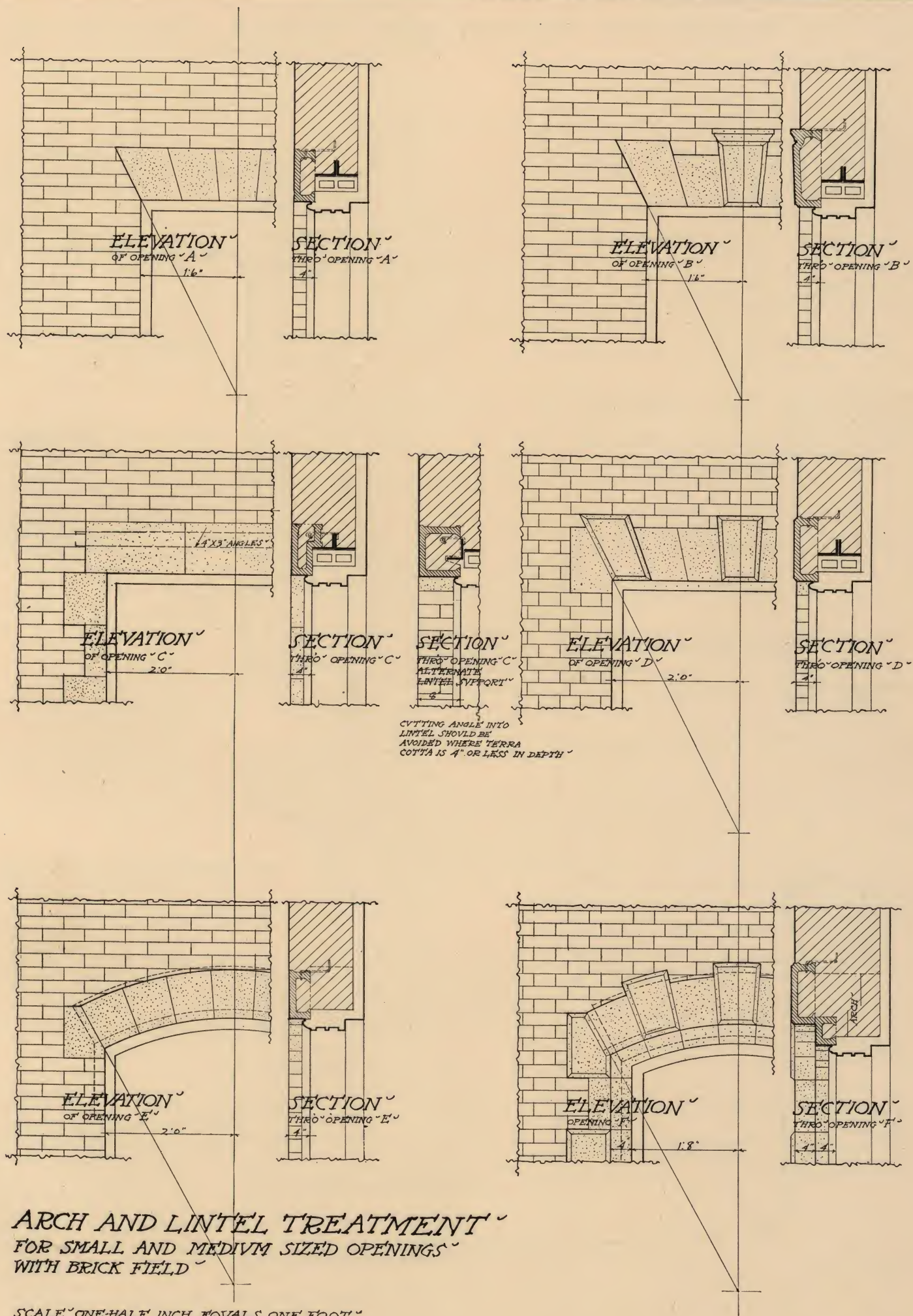
ELEVATION
SIDE OF BUTTRESS "C"

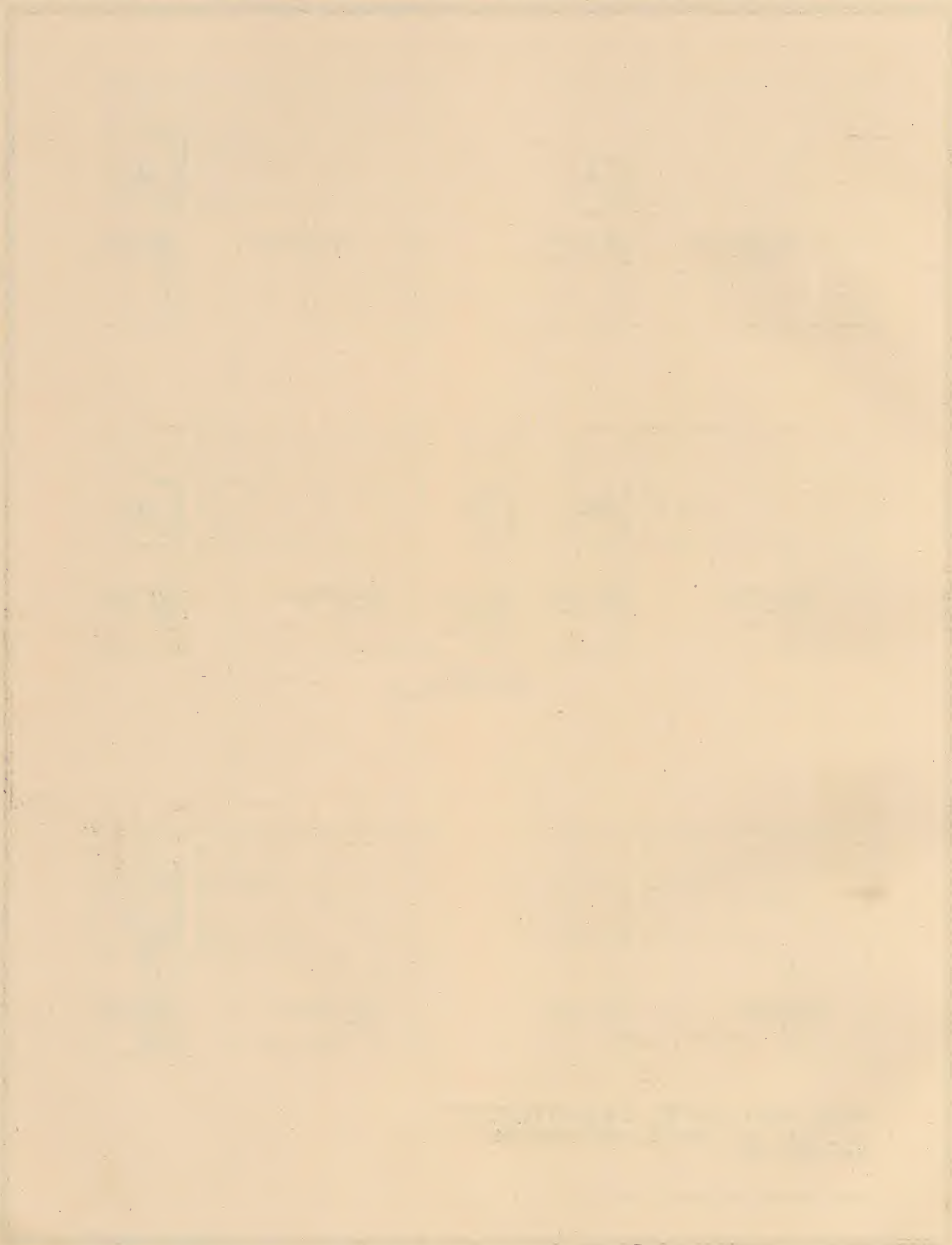


ELEVATION
FRONT OF BUTTRESS "C"



ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION





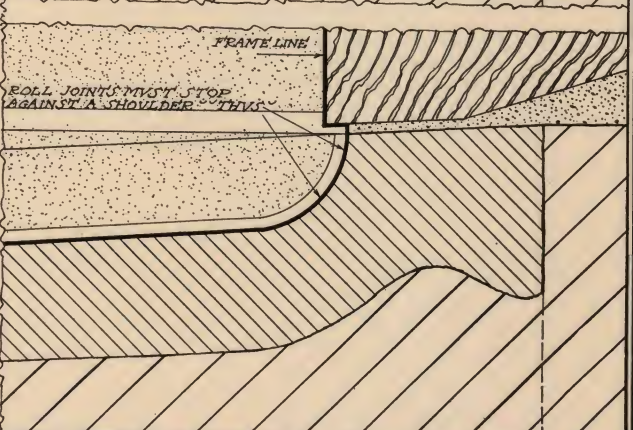
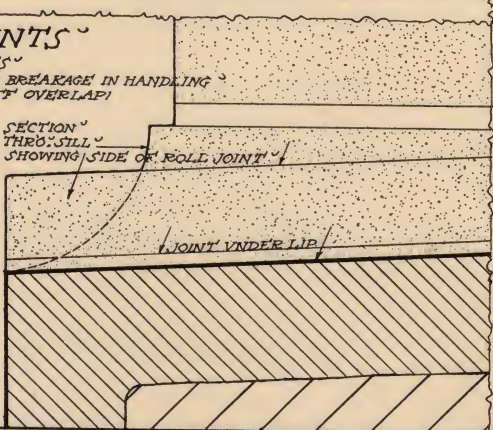
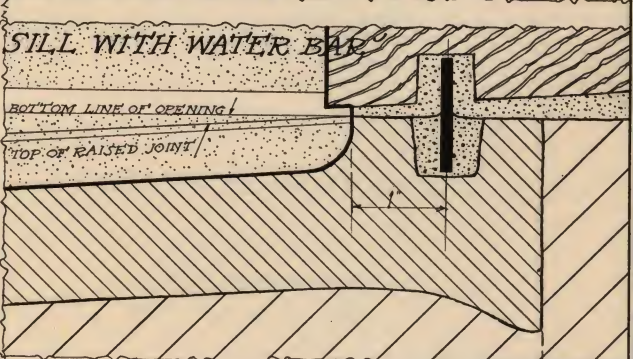
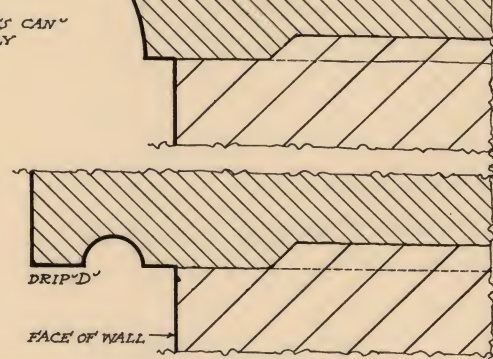
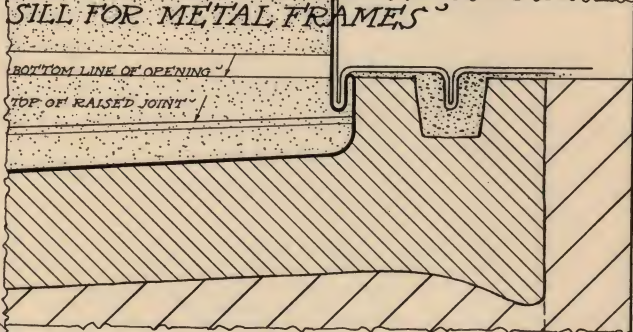
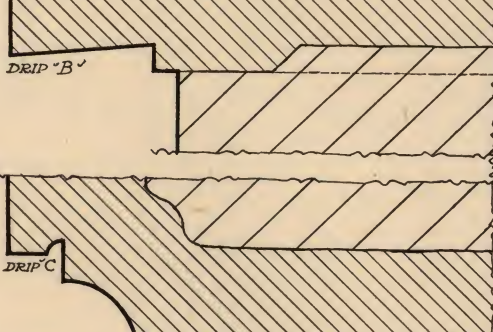
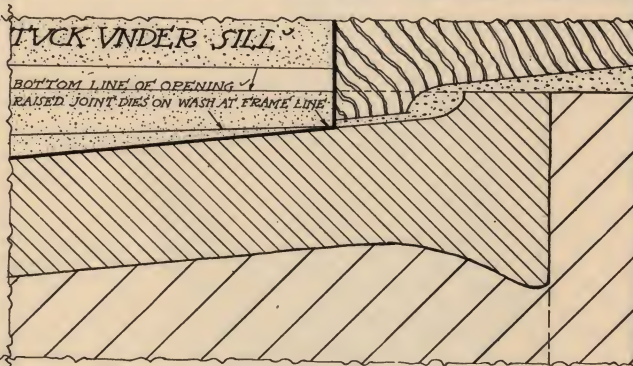
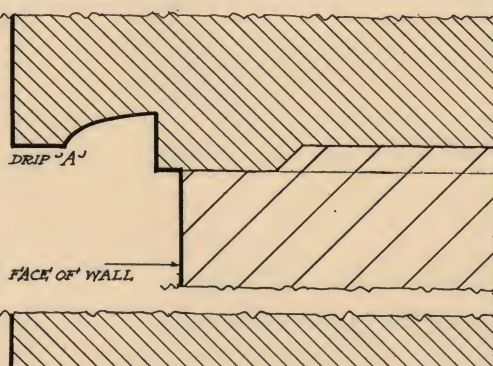
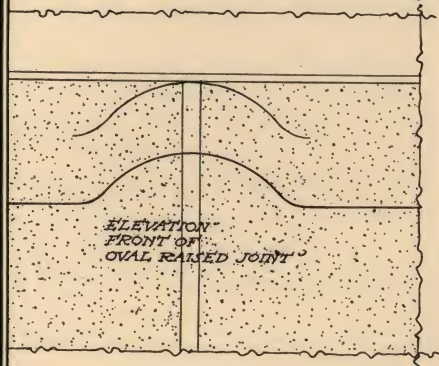
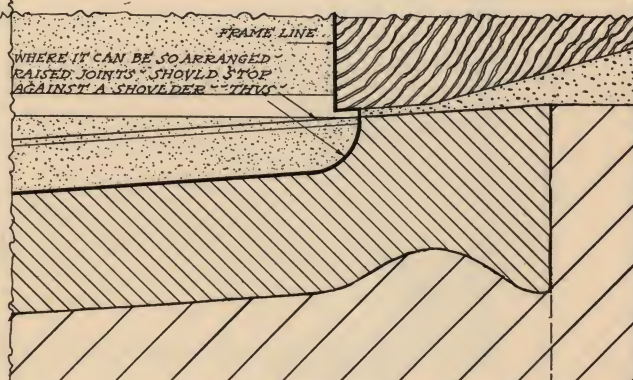
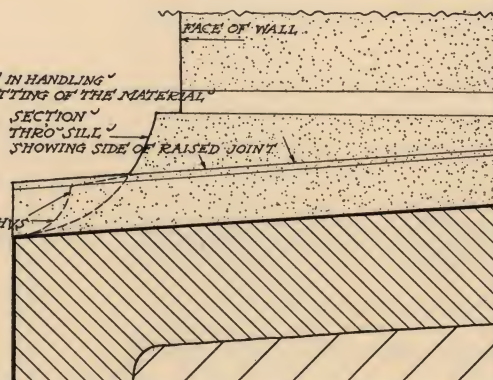
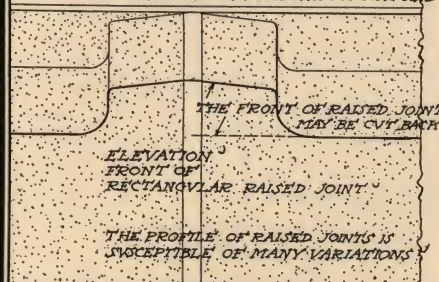
PROTECTED JOINTS . SILL WASHES . AND DRIPS .

TERRA COTTA LENDS ITSELF TO GREAT VARIETY IN FORM AND PROFILE . . .
OFTEN WITHOUT ADDING TO THE COST . . .

SCALE . HALF FULL SIZE .

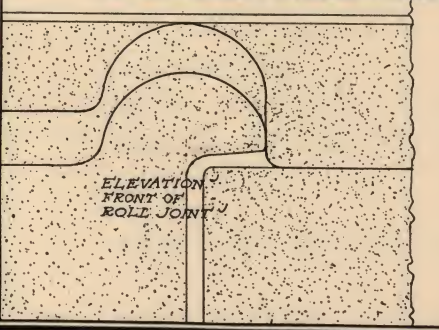
RAISED JOINTS .

ARE MUCH SUPERIOR TO ROLL JOINTS .
MUCH LESS LIABLE TO CHIPPING AND BREAKAGE IN HANDLING .
FACILITATES THE PROPER FITTING AND SETTING OF THE MATERIAL .



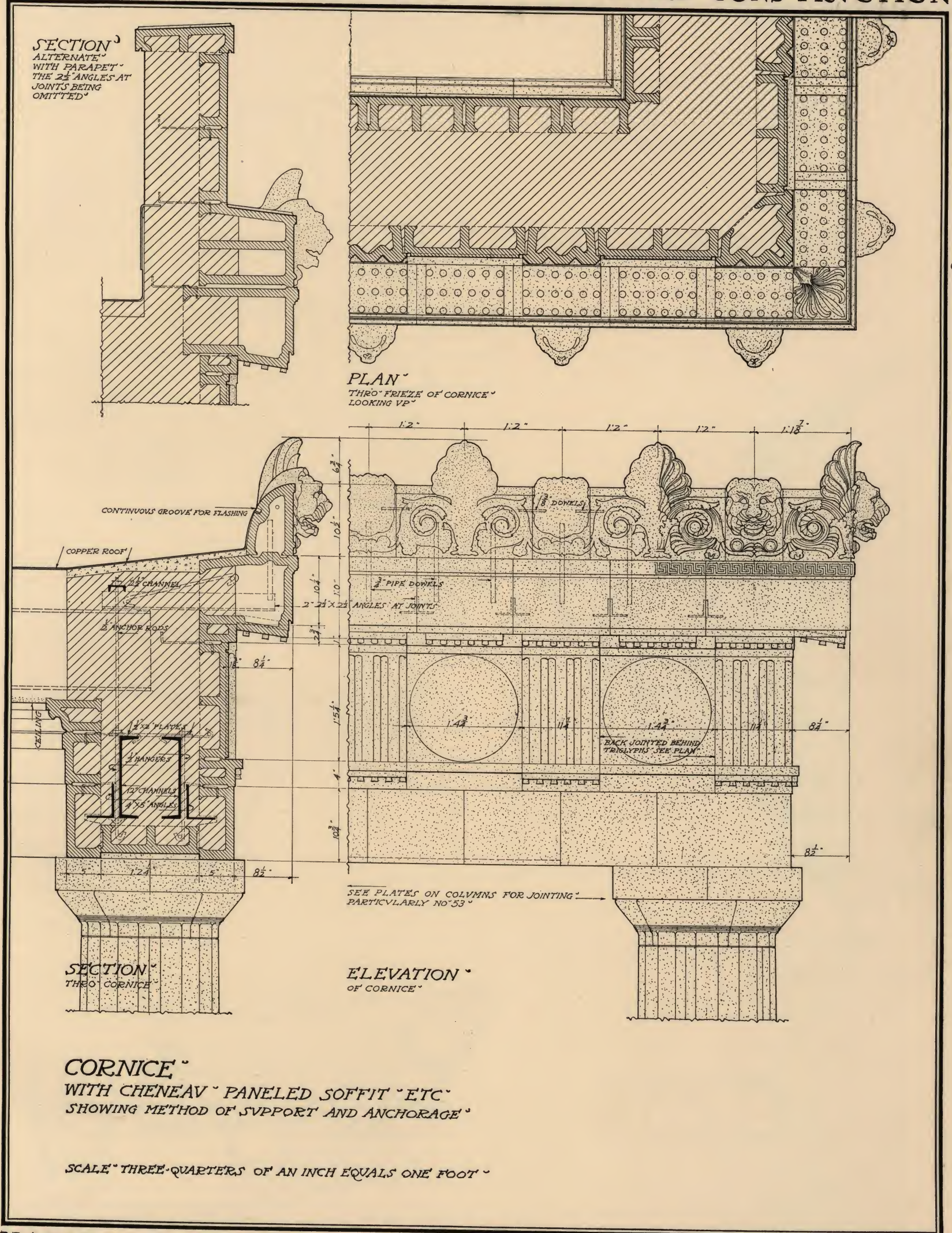
OLD STYLE ROLL JOINTS .

ARE MUCH INFERIOR TO RAISED JOINTS .
ARE VERY SUSCEPTIBLE TO CHIPPING AND BREAKAGE IN HANDLING .
ANY SETTLEMENT IS LIABLE TO BREAK OFF OVERLAP .





ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION





ARCHITECTURAL TERRA COTTA · STANDARD CONSTRUCTION

MODILLION CORNICE WITH GUTTER AND TILE ROOF SHOWING METHOD OF SUPPORT AND ANCHORAGE

COMPARED TO OTHER MATERIALS WITH LASTING QUALITIES
DECORATION IN ARCHITECTURAL TERRA COTTA IS INEXPENSIVE
PARTICULARLY WHERE CONSIDERABLE DUPLICATION OF MODELS OCCUR

PLAN OF CORNICE AT A LOOKING VP

ELEVATION

SECTION THRO MODILLIONS AND SOFFIT

SCALE ONE-HALF INCH EQUALS ONE FOOT

SECTION THRO CORNICE

PLAN TOP BED OF MODILLIONS

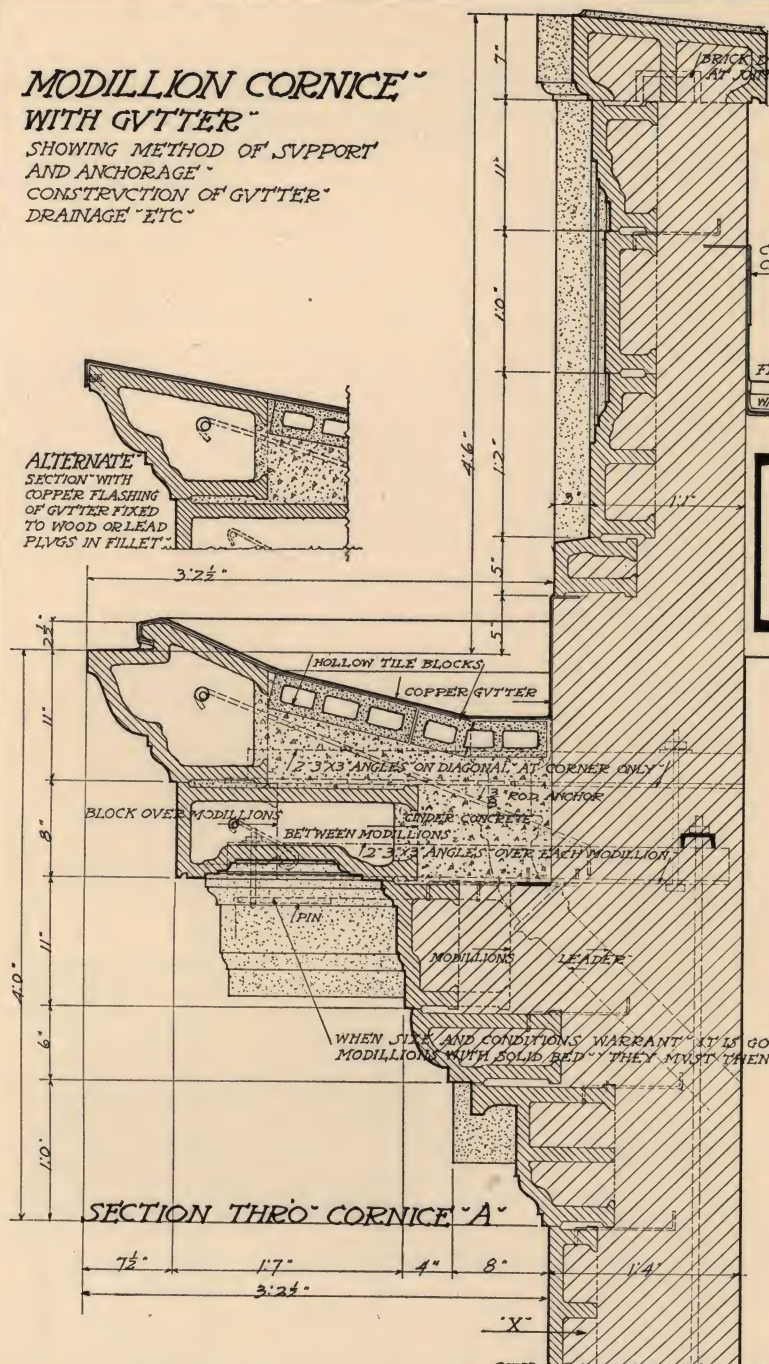


ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

MODILLION CORNICE~ WITH GUTTER~

SHOWING METHOD OF SUPPORT
AND ANCHORAGE~
CONSTRUCTION OF GUTTER~
DRAINAGE~ETC~

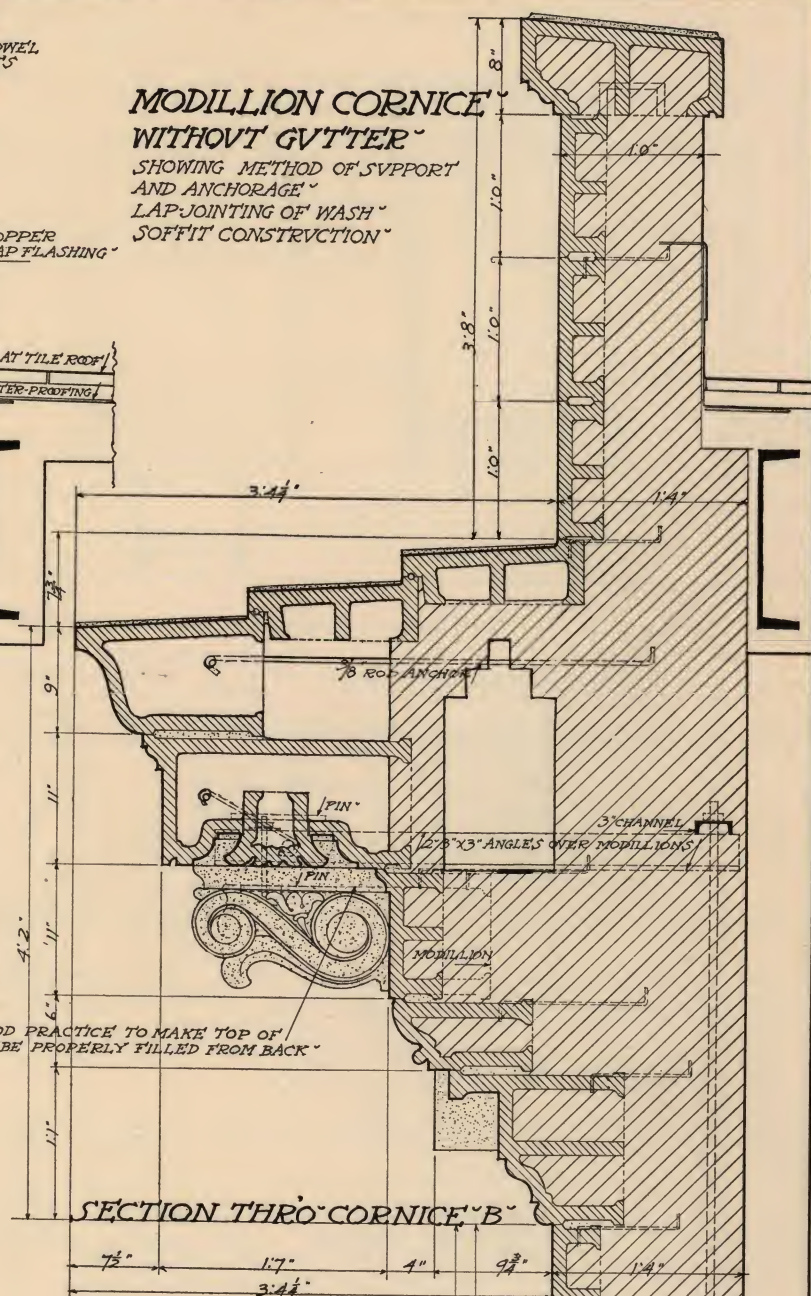
ALTERNATE
SECTION~WITH
COPPER FLASHING
OF GUTTER FIXED
TO WOOD OR LEAD
PLUGS IN FILLET~



SECTION THRO' CORNICE 'A'

MODILLION CORNICE~ WITHOUT GUTTER~

SHOWING METHOD OF SUPPORT
AND ANCHORAGE~
LAP-JOINTING OF WASH~
SOFFIT CONSTRUCTION~

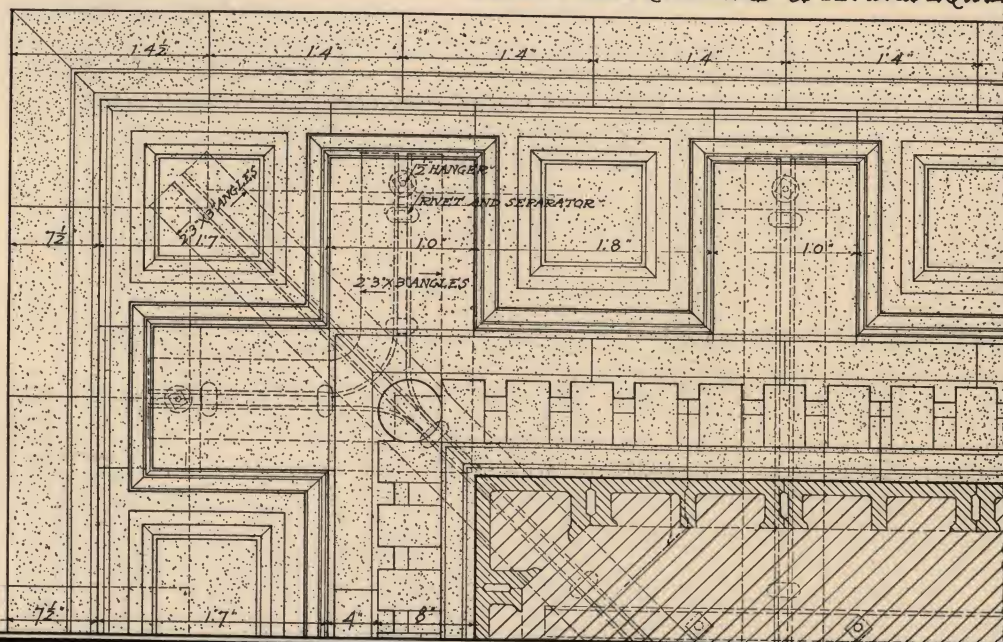


SECTION THRO' CORNICE 'B'

PLAN OF CORNICE 'A'

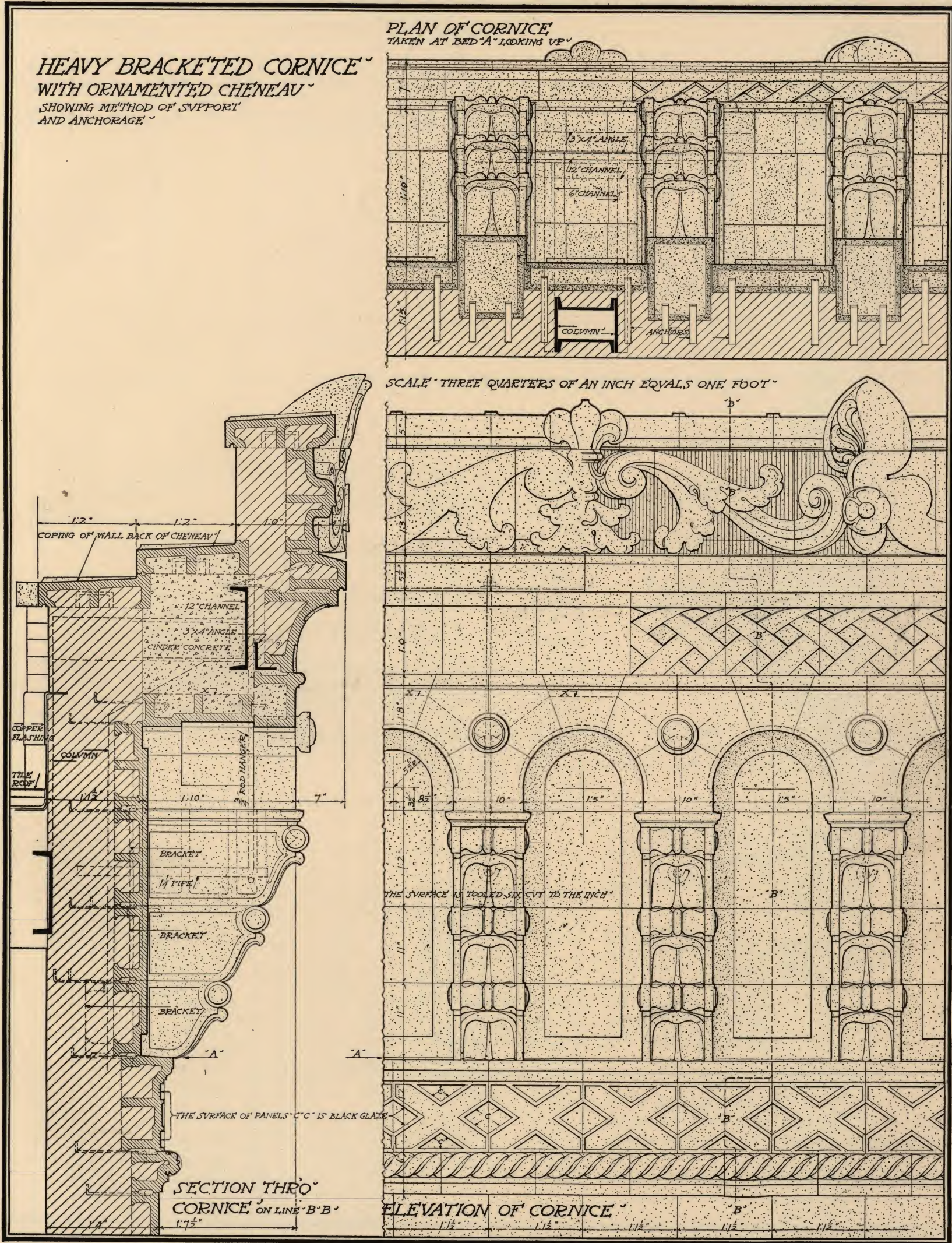
TAKEN AT 'X' LOOKING UP~

SCALE~THREE QUARTERS OF AN INCH EQUALS ONE FOOT~



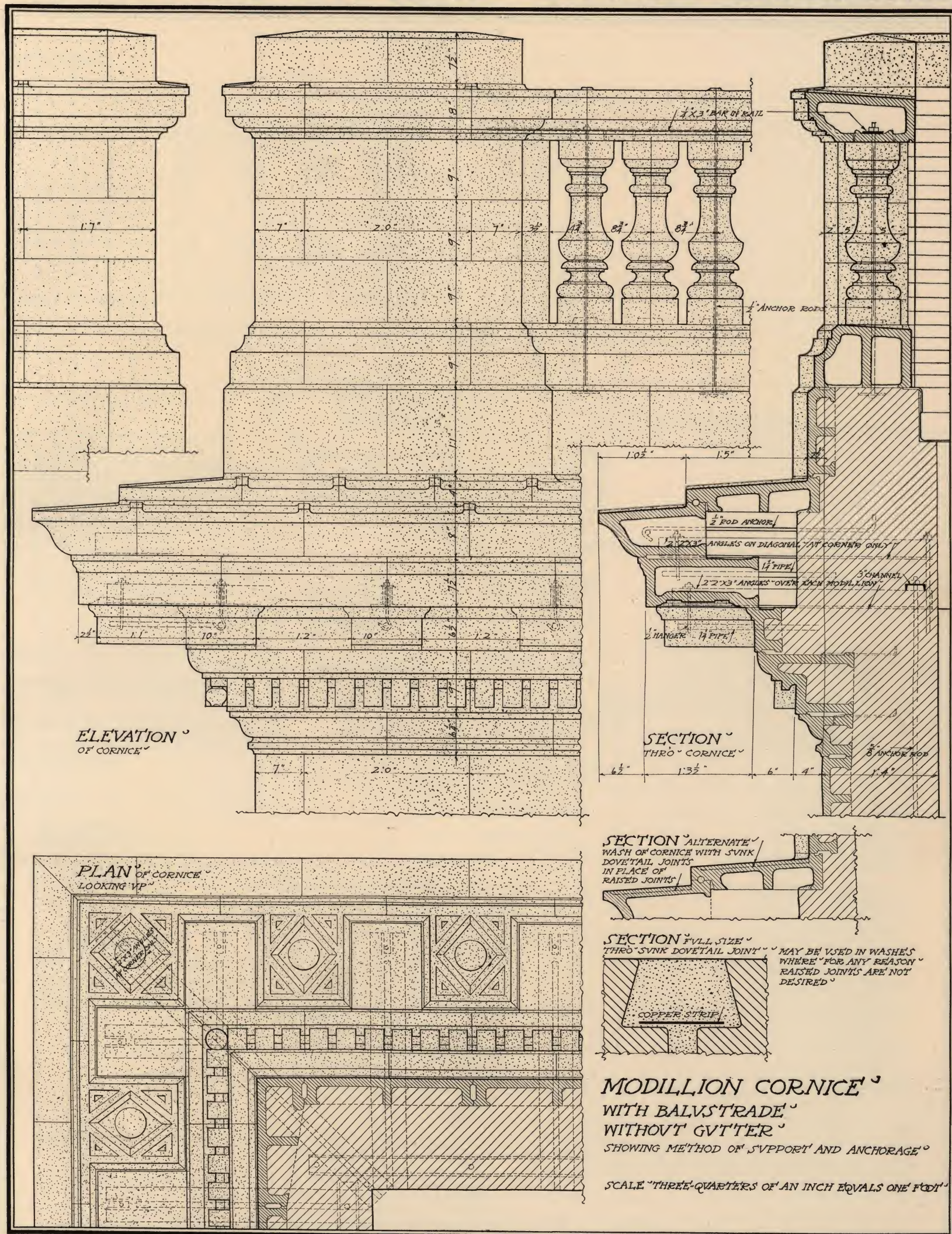


ARCHITECTURAL TERRA COTTA . . . STANDARD CONSTRUCTION

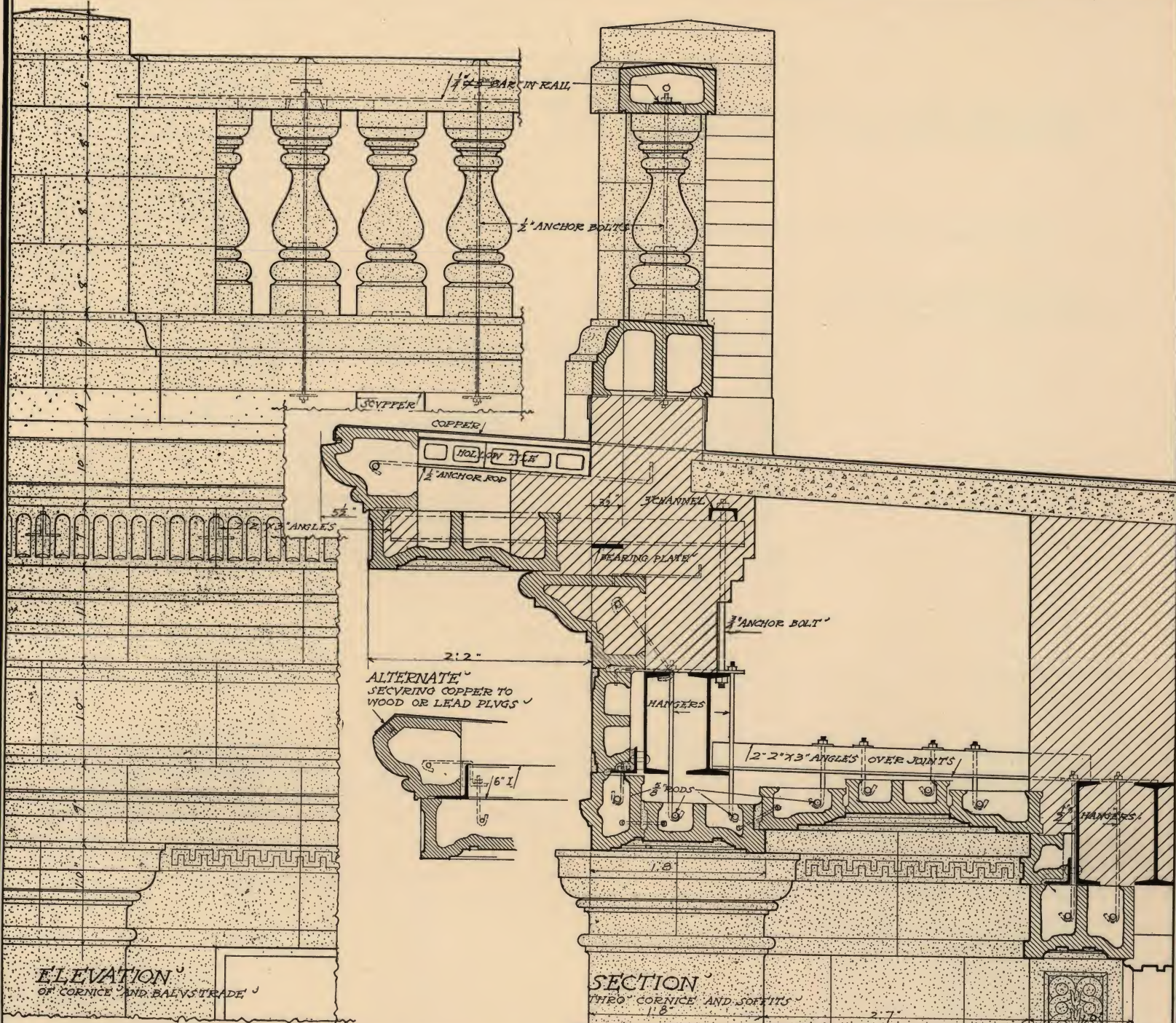




ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION







CORNICE
WITH BALUSTRADE
WITH paneled SOFFITS
OVER COLUMNS AND PILASTERS

PLAN
OF CORNICE AND SOFFITS
LOOKING UP

SCALE: THREE QUARTERS OF AN INCH EQUALS ONE FOOT



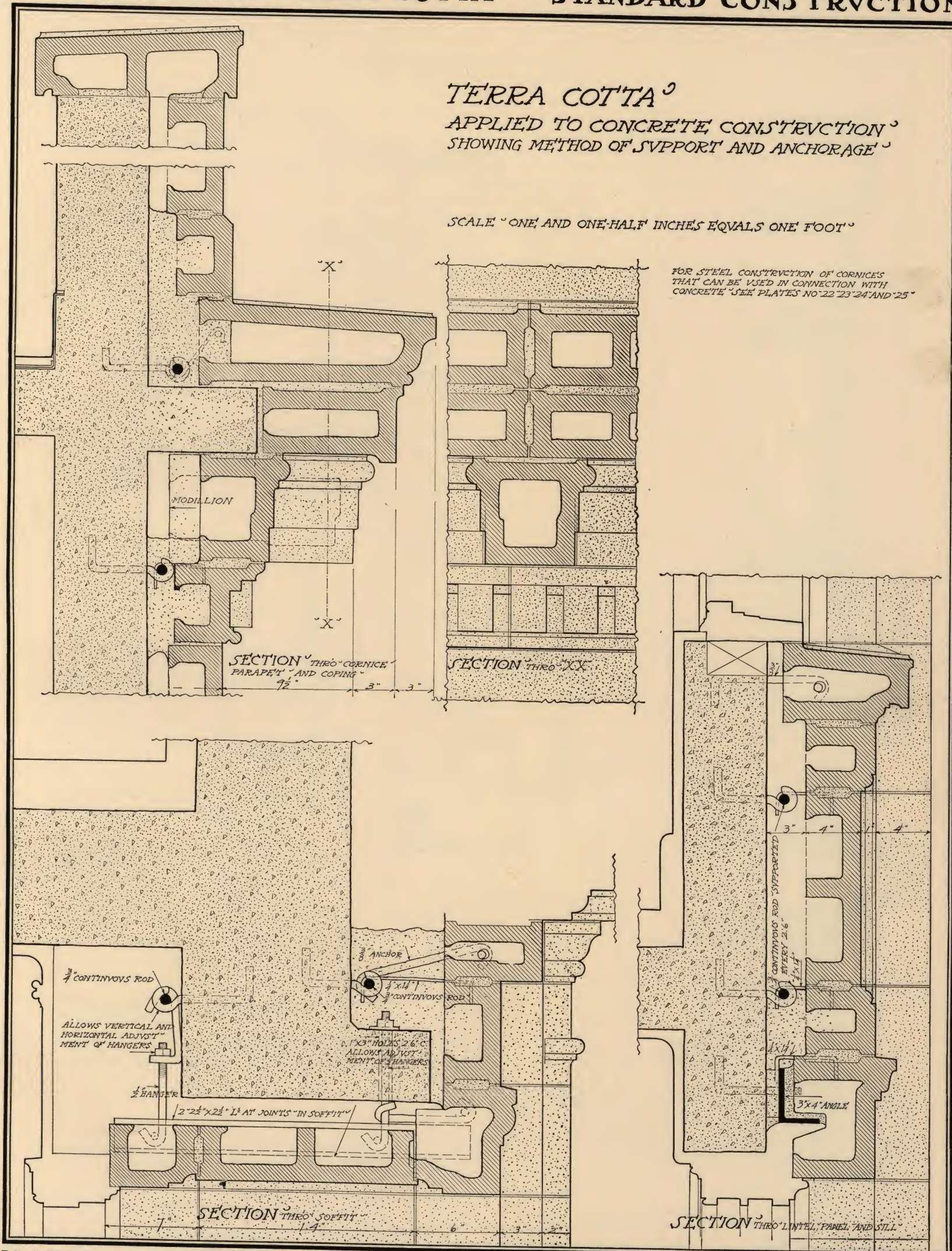
ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

TERRA COTTA^o

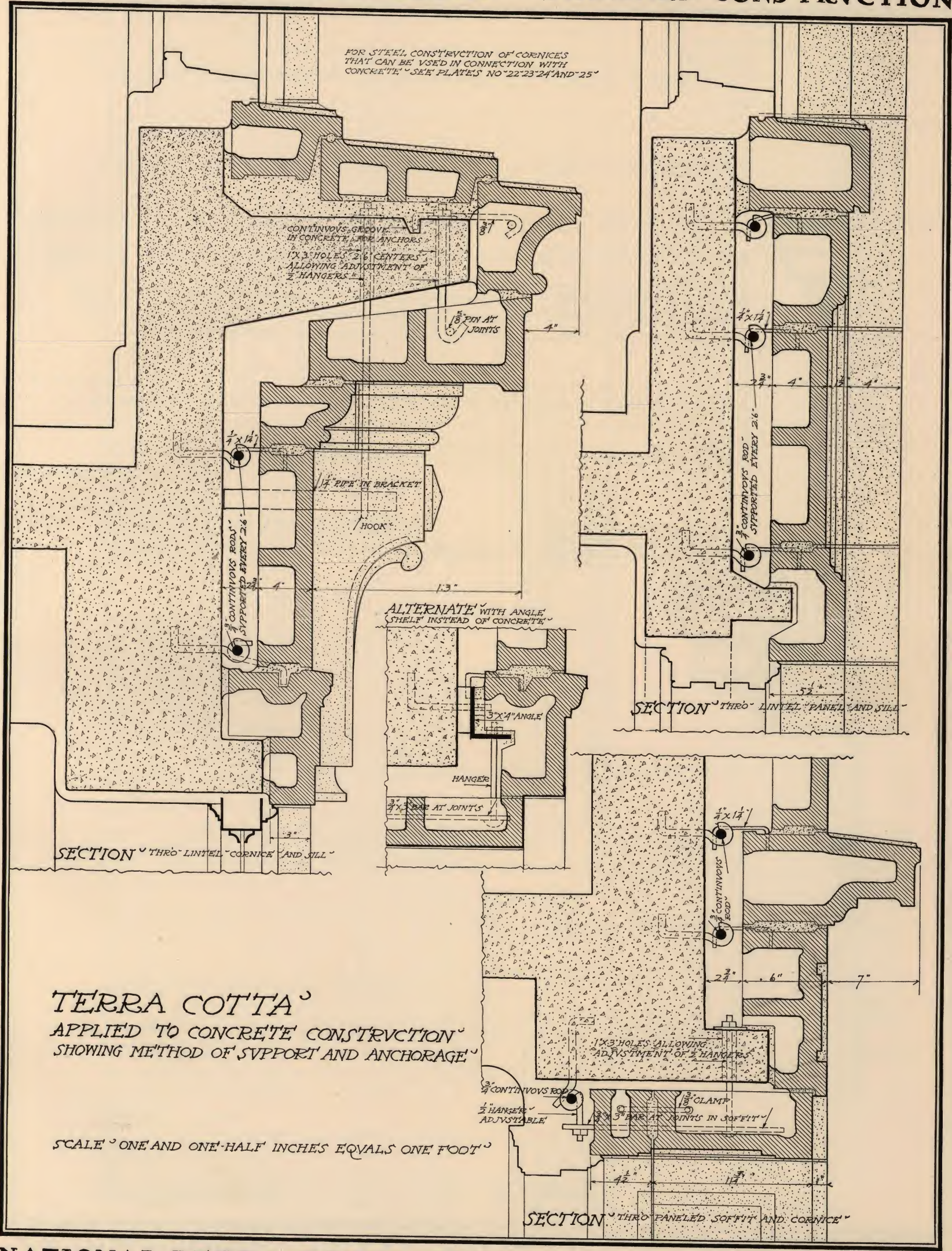
APPLIED TO CONCRETE CONSTRUCTION^o
SHOWING METHOD OF SUPPORT AND ANCHORAGE^o

SCALE "ONE AND ONE-HALF INCHES EQUALS ONE FOOT"

FOR STEEL CONSTRUCTION OF CORNICES
THAT CAN BE USED IN CONNECTION WITH
CONCRETE "SEE PLATES NO. 22, 23, 24 AND 25"



ARCHITECTURAL TERRA COTTA . . . STANDARD CONSTRUCTION





This architectural drawing illustrates a cornice with a parapet, featuring an elevation and a plan view. The elevation shows a multi-tiered structure with a central panel in the mullion. The plan view shows the layout of the cornice and parapet. The drawing includes detailed dimensions and a scale of one-half inch equals one foot.

CORNICE WITH PARAPET
ASHLAR SILL COURSE AND PANELED MULLION

NOTE: THAT THE PANEL IN MULLION IS JOINTED VERTICALLY TO ALLOW OF ADJUSTMENT IN ALIGNMENT IN SETTING. SEE PLAN. THE TOP AND BOTTOM PIECES ARE NOT JOINTED.

ALTERNATE CROWN OF LARGE CORNICES JOINTED IN TWO

SCALE: ONE-HALF INCH EQUALS ONE FOOT

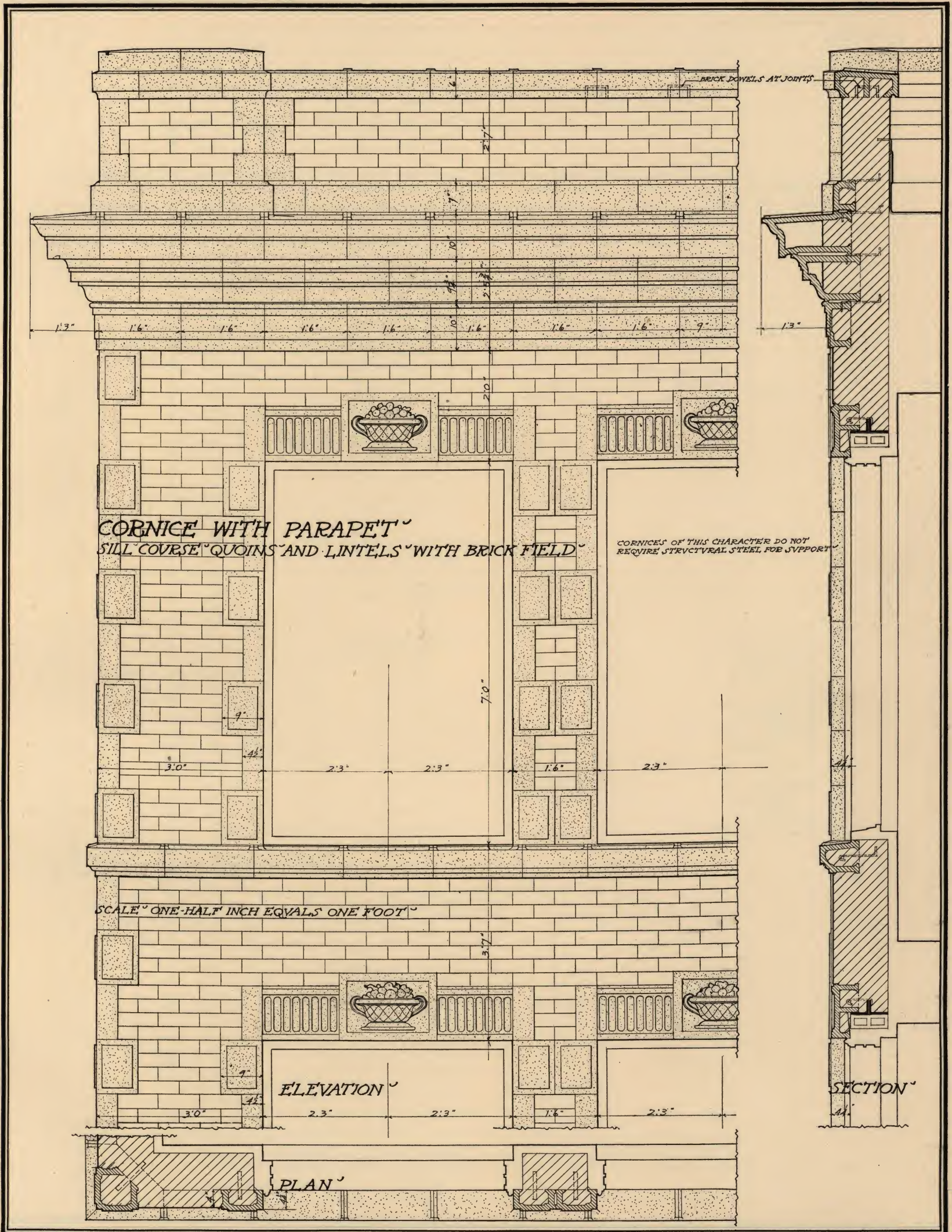
ELEVATION

PLAN

SECTION



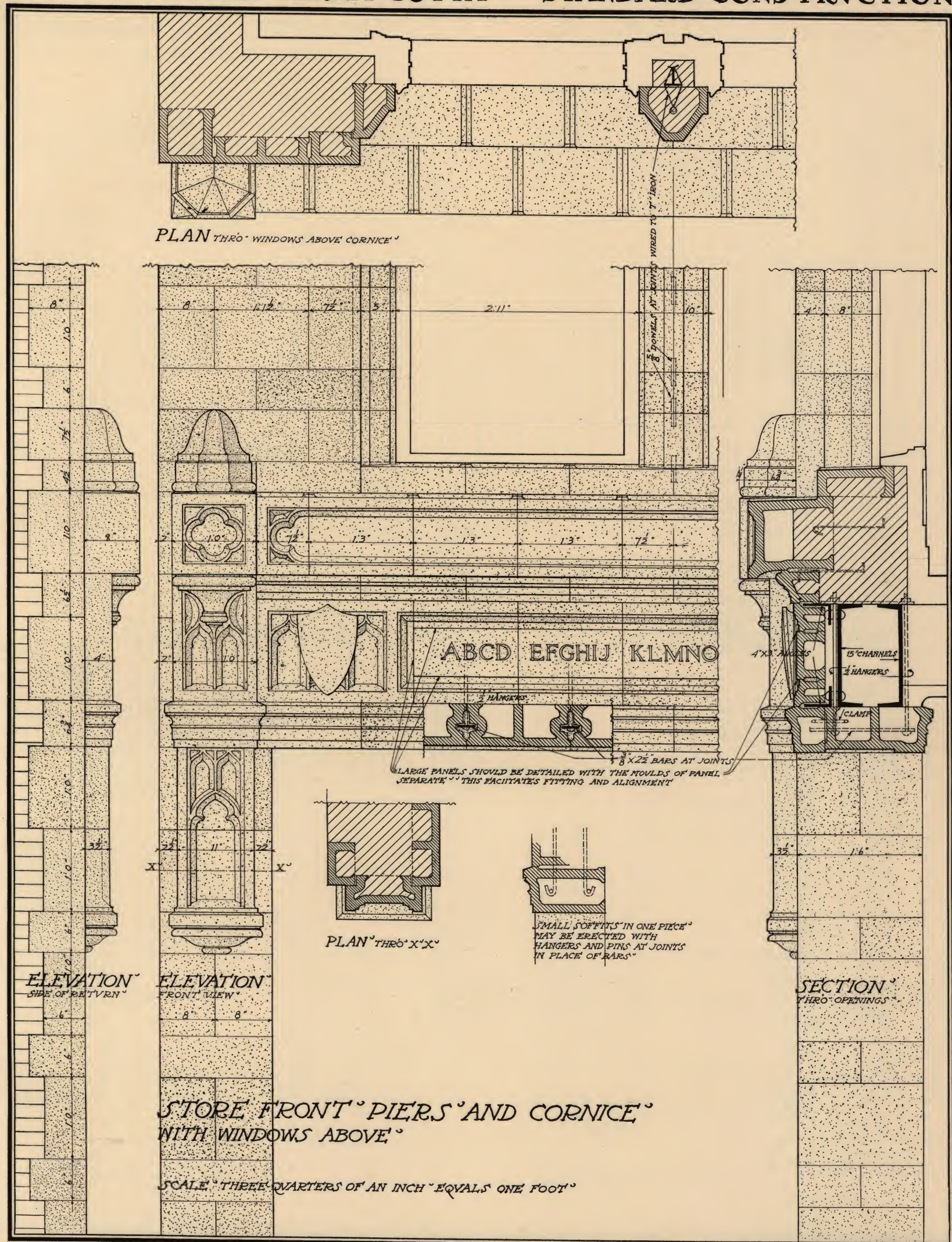
ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION





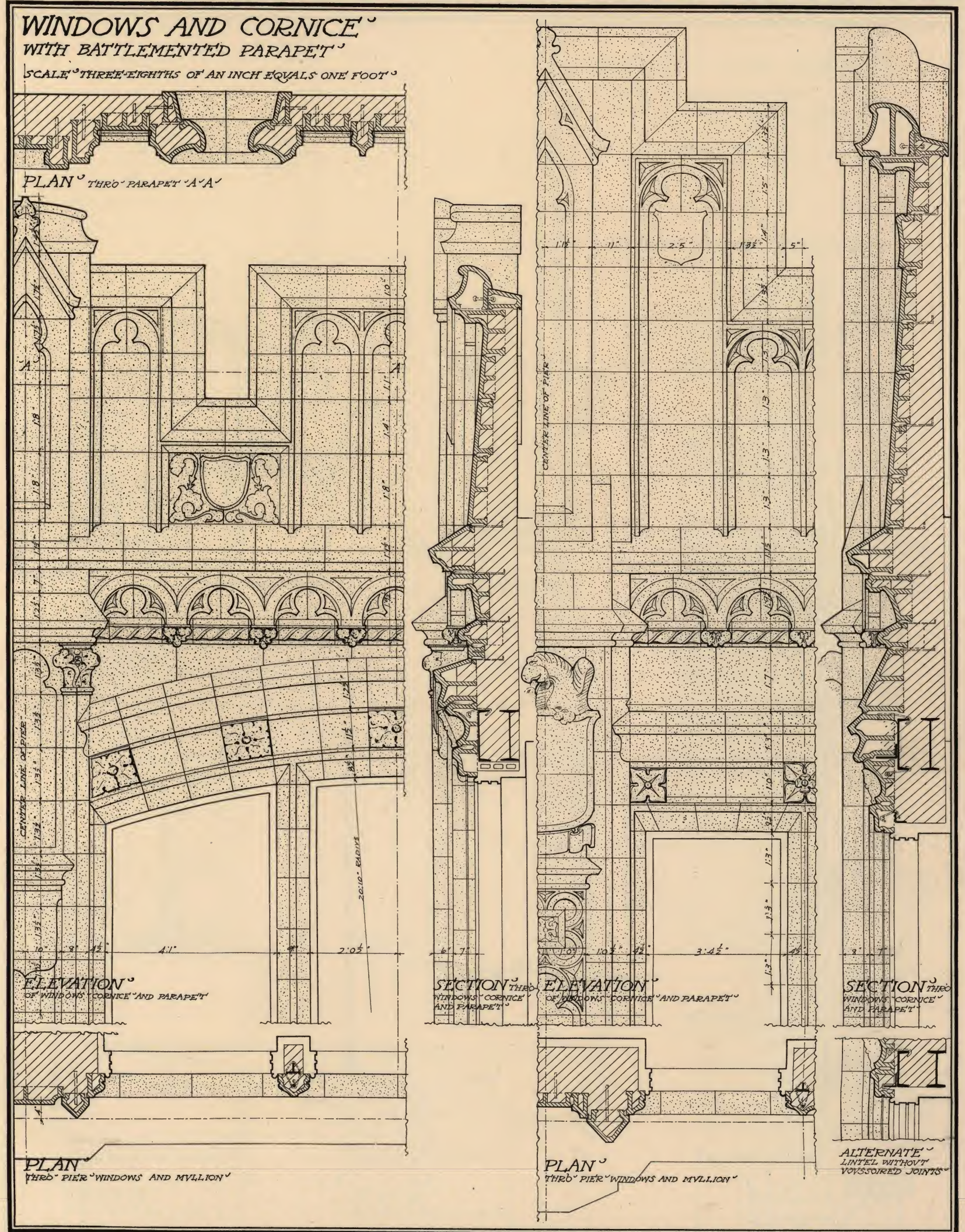


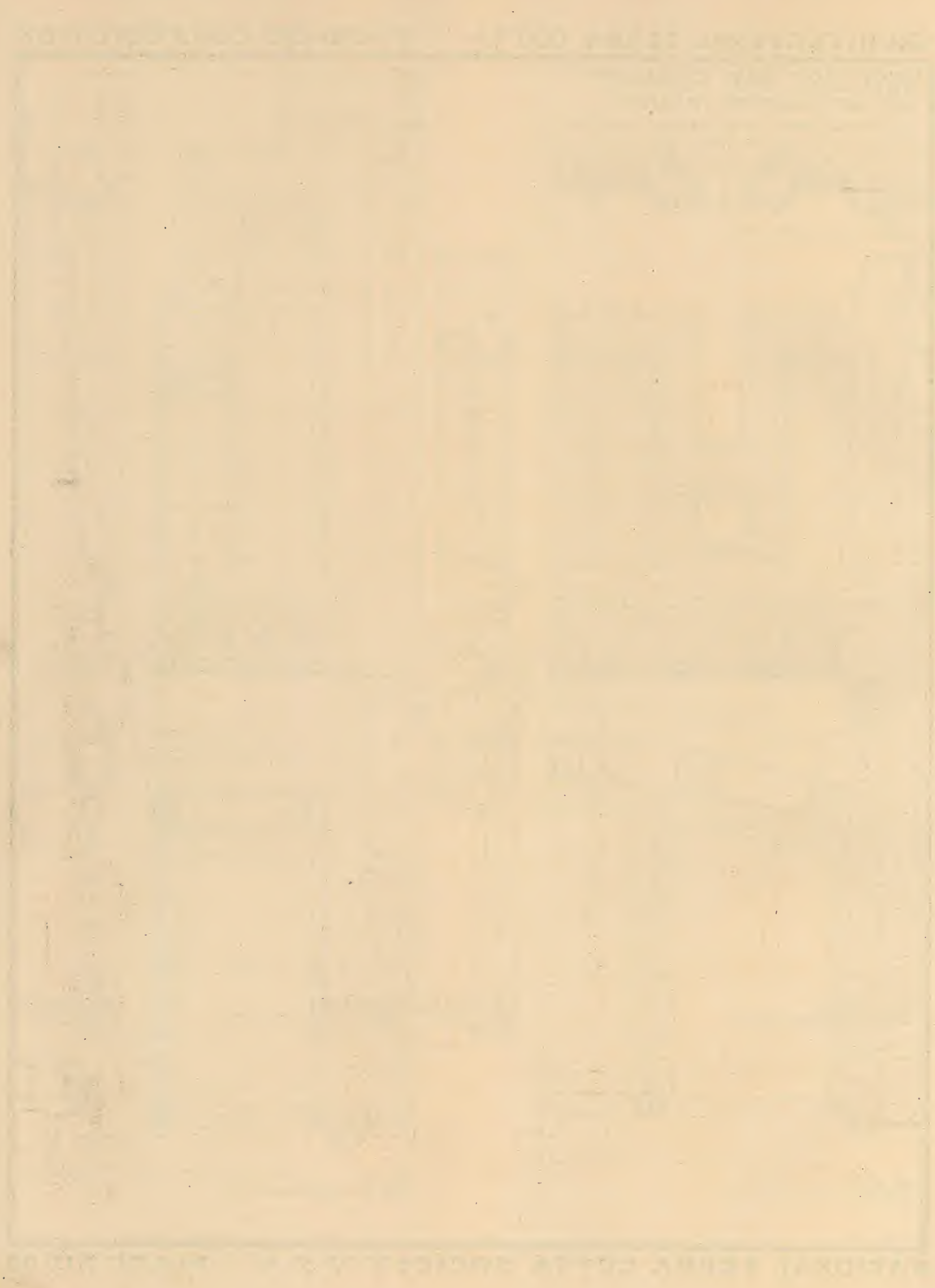
ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION





ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

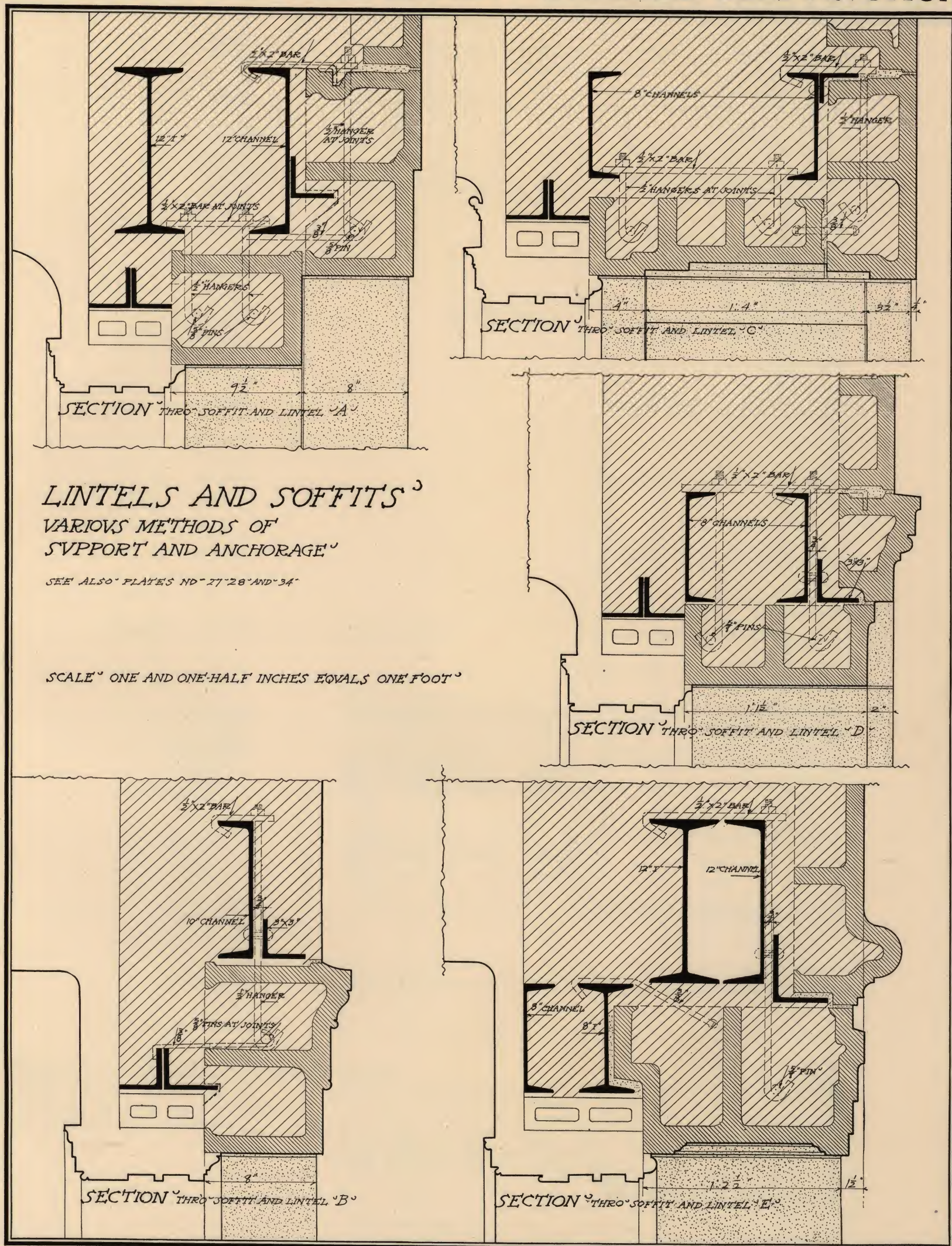




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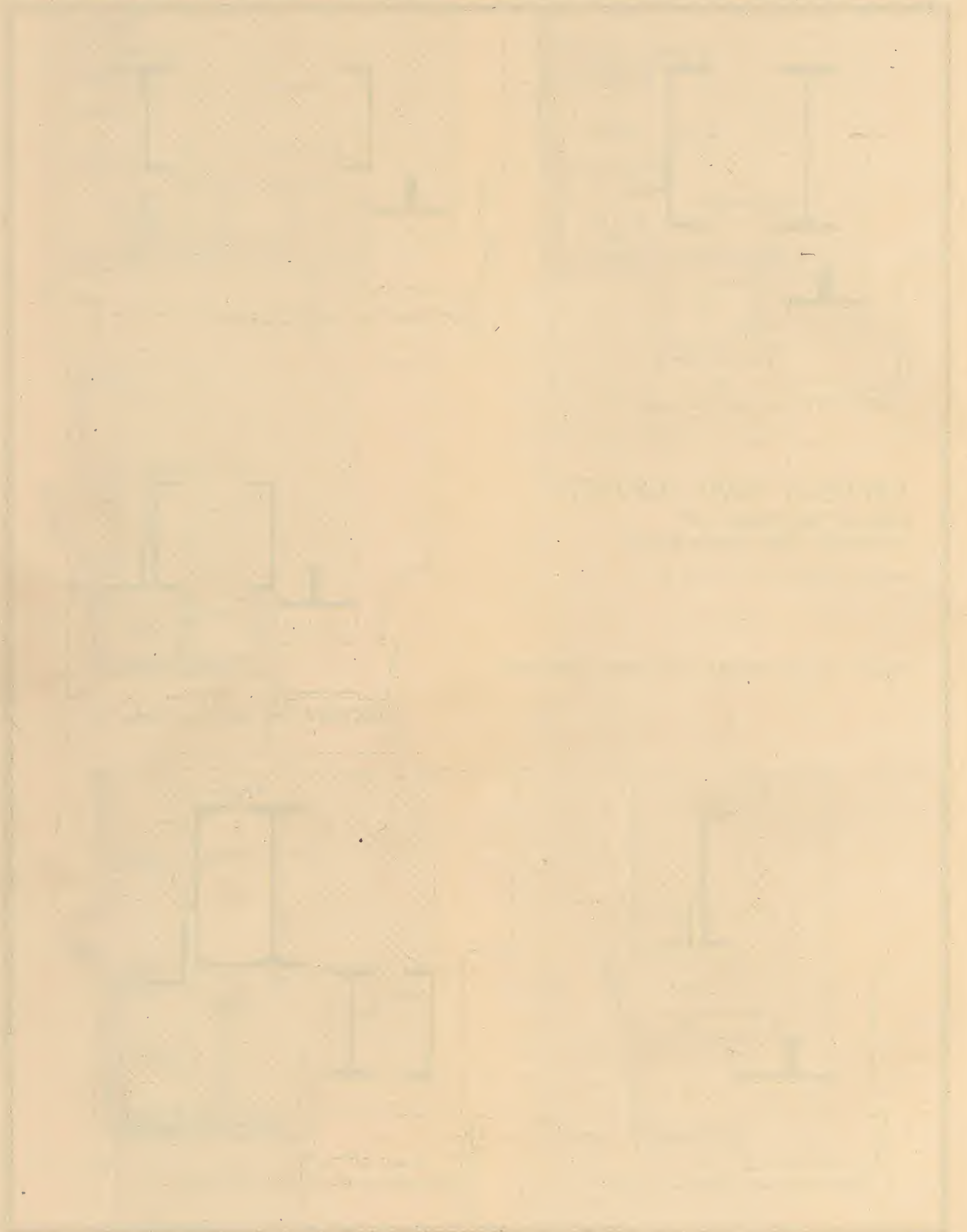
ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION



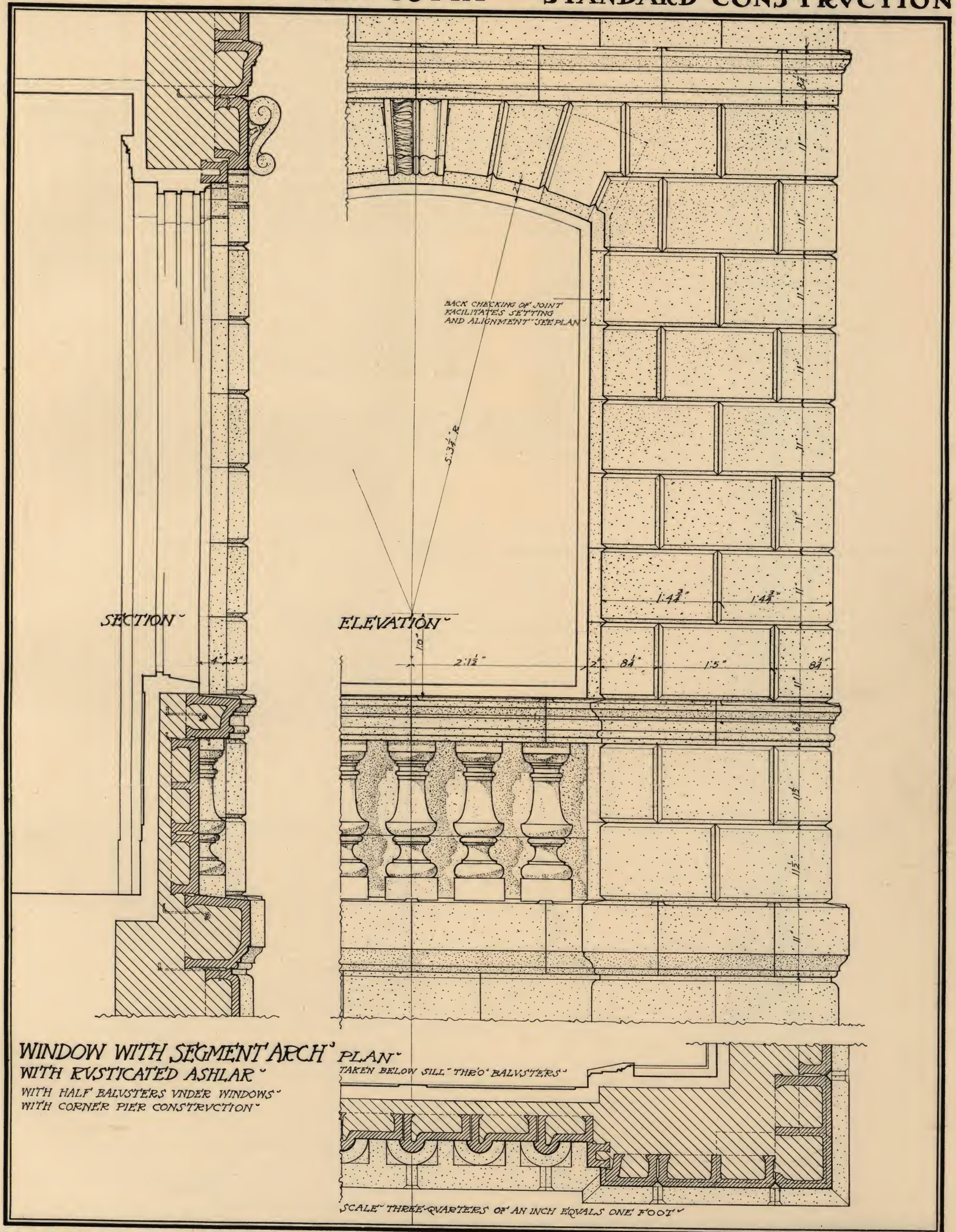
LINTELS AND SOFFITS VARIOUS METHODS OF SUPPORT AND ANCHORAGE

SEE ALSO PLATES NO. 27, 28 AND 34

SCALE ONE AND ONE-HALF INCHES EQUALS ONE FOOT



ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION





[illegible]



ELEVATION - OUTSIDE OF WINDOW

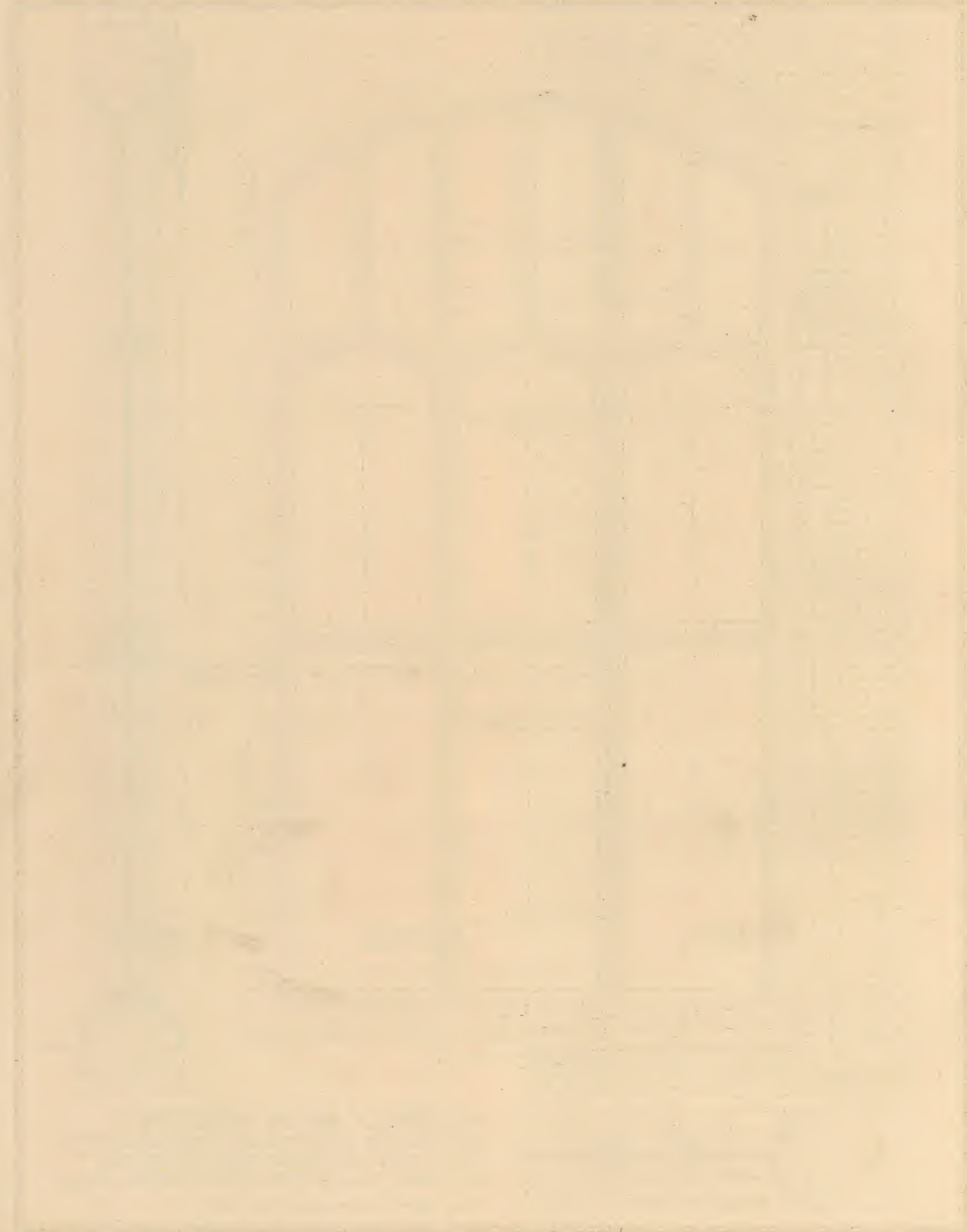
ELEVATION - INSIDE OF WINDOW

SECTION - THROUGH WINDOW

PLAN - THROUGH WINDOW

ASSEMBLY ROOM WINDOW
 WITH MOULDED JAMBS, MULLIONS, BARS AND SOFFITS
 WITH OUTSIDE AND INSIDE TERRA COTTA TRIM
 WITH BRICK FIELD OUTSIDE AND PLASTER INSIDE

SCALE - ONE-HALF INCH EQUALS ONE FOOT



GOTHIC WINDOW
WITH COLORED TERRA COTTA INSERTS
WITH ASHLAR FIELD

1.6" 1.6" 1.6"

COLORED T.C.

COLORED T.C.

LEADED GLASS

5'10"

11' 7"

9' 7" 9' 7" 9' 7" 1'5" 6" 1'5" 6" 1'5" 3' 9' 7" 9' 7"

ELEVATION
OF WINDOW

PLAN
THRO' WINDOW

SCALE ONE HALF INCH EQUALS ONE FOOT

SECTION
THRO' WINDOW

BRONZE CHANNEL FRAME FOR LEADED GLASS

GLASS

QUARTER SIZE



ROSE WINDOW
WITH MOULDED AND ORNAMENTED TRIM
WITH BRICK FIELD

LINE OF RELIEVED ARCH

THE DIAMETER OF WINDOW DESIGN AND THICKNESS OF MEMBERS WOULD GOVERN THE IRON ANCHORAGE THE IRON COULD IN MANY CASES BE OMITTED USING DOWELS AND PINS AS HERE SHOWN

PIPE
CLAMP
CENTER LINE

IF OPENINGS ARE TO RECEIVE GLASS SOME OF THE MEMBERS WOULD HAVE TO BE JOINED TO FACILITATE SETTING GLASS SEE PLATE NO 39 42 AND 43

ELEVATION
ONE QUARTER OF WINDOW

SCALE THREE-QUARTERS OF AN INCH EQUALS ONE FOOT

ABCH

PLAN
THRO' WINDOW

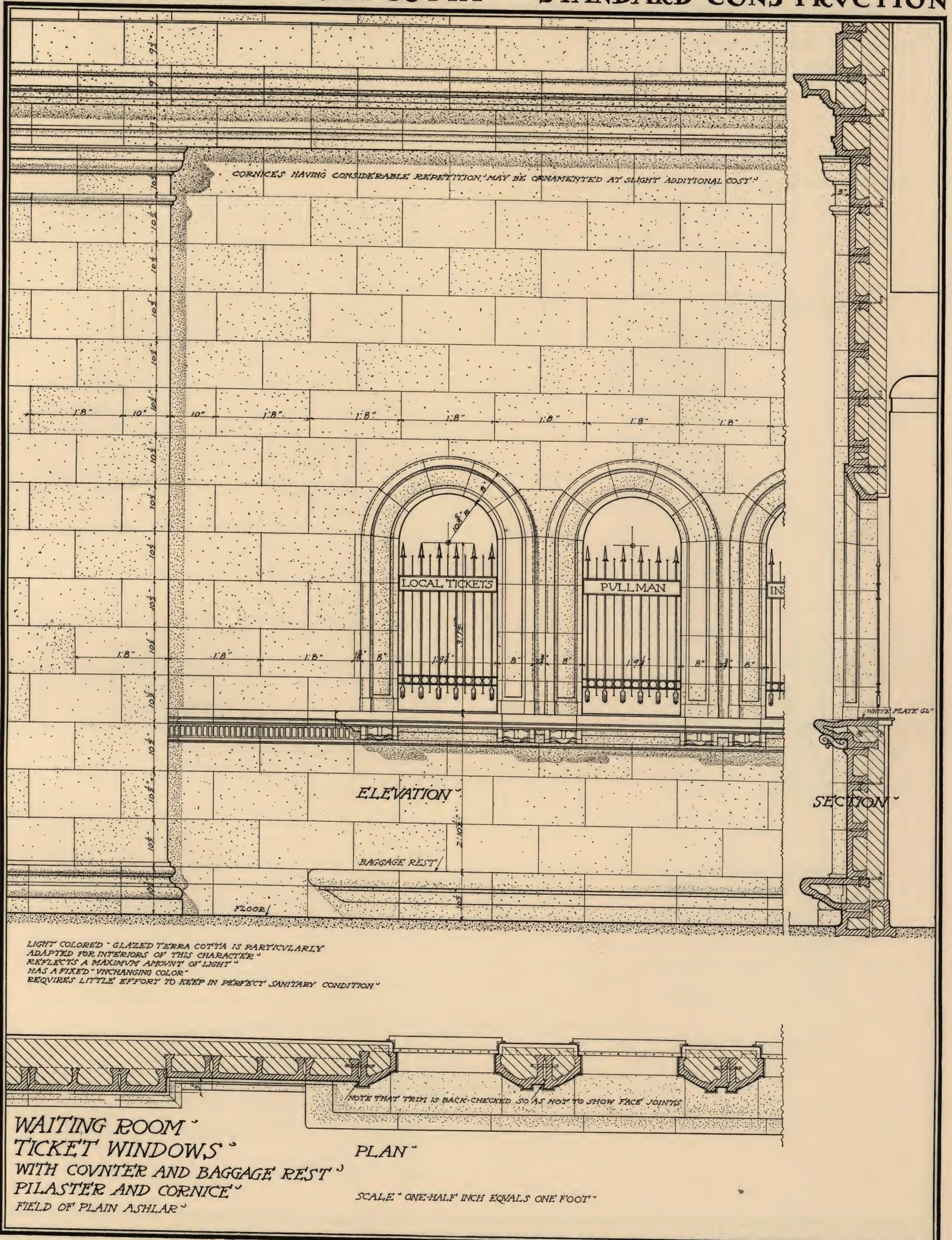
THESE OUTSIDE RECESSES AT BOTTOM FILLED FLUSH SO AS TO SHED WATER

THE UNIVERSITY OF CHICAGO PRESS



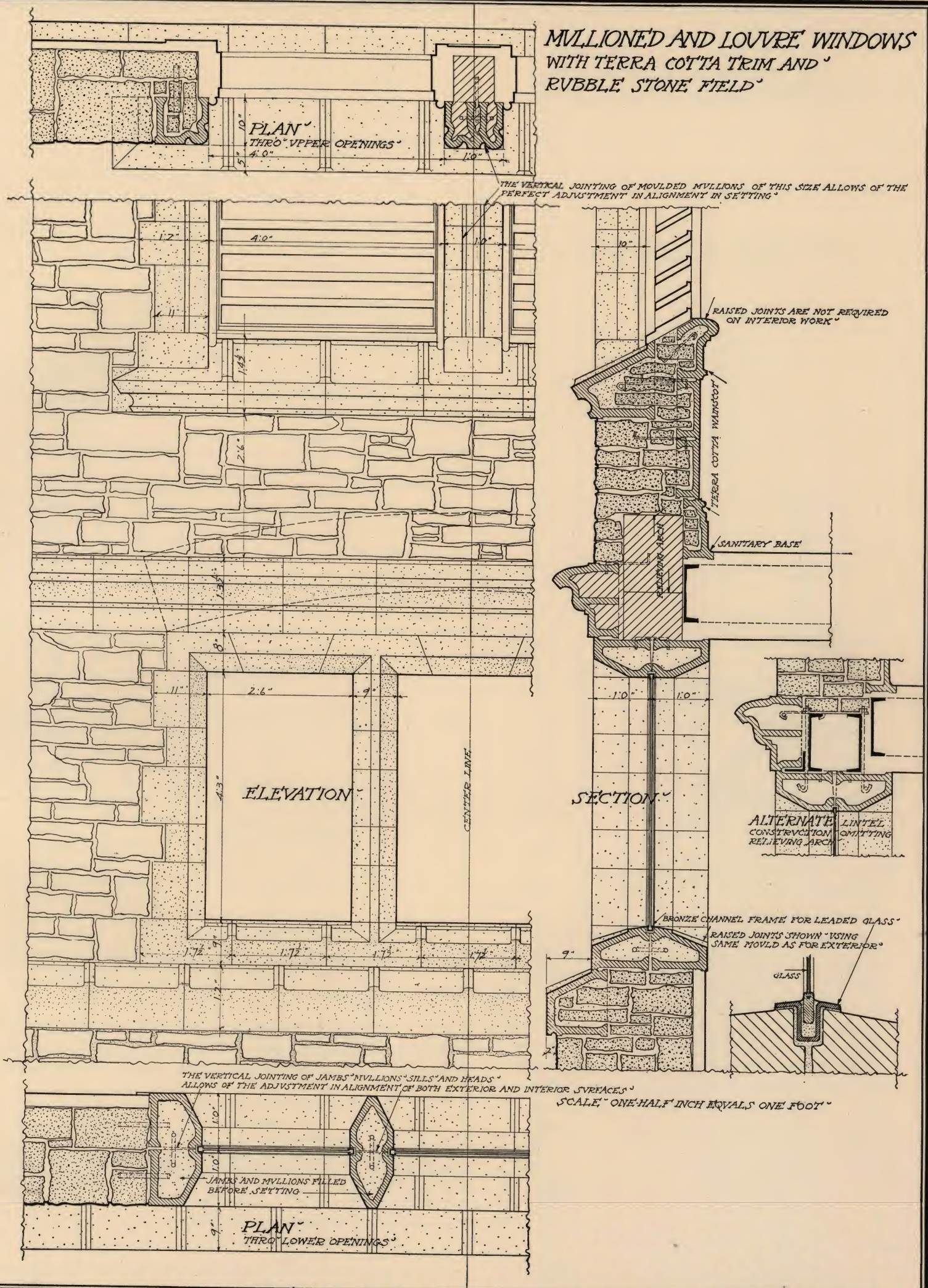
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WINDOW
 WITH MOULDED JAMB AND SILL
 WITH INTERIOR TERRA COTTA WAINSCOT

THE VERTICAL JOINTING OF MOULDED JAMBS (PARTLY CONCEALED BY BACK CHECKING) AS SHOWN PERMITS OF ADJUSTMENT IN ALIGNMENT IN SETTING

PLAN

ELEVATION

SECTION

BRONZE CHANNEL FRAME IN GROOVE FOR LEADED GLASS TO PREVENT LEAKAGE SEE PLATE NO. 42

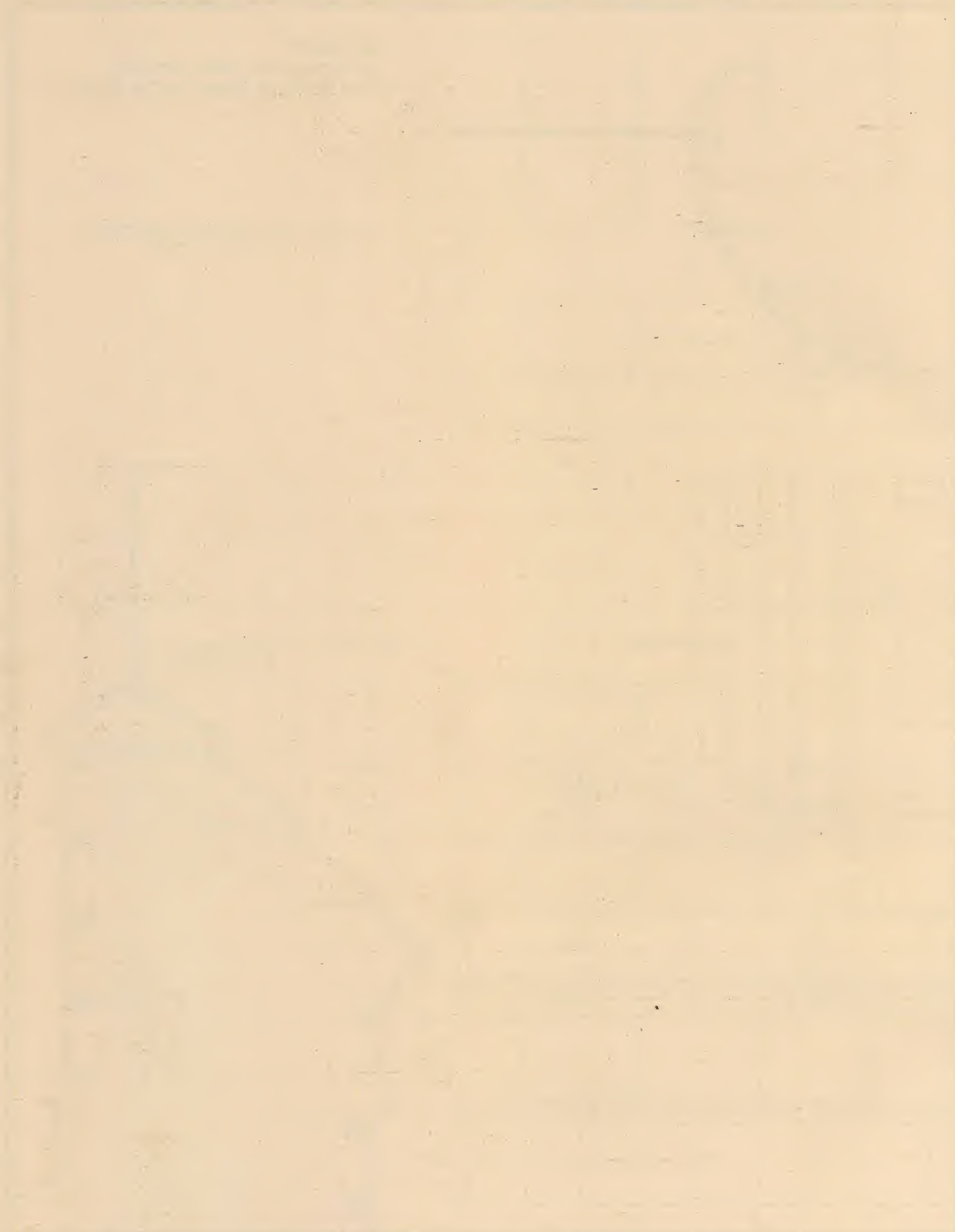
SILLS FILLED BEFORE SETTING

SILL EXTENDS INTO JAMB WITH SEATS AT "A" "B" AND "C" TO PREVENT LEAKAGE

FACE OF WALL

SCALE "THREE QUARTERS OF AN INCH EQUALS ONE FOOT"

THE UNIVERSITY OF CHICAGO LIBRARY



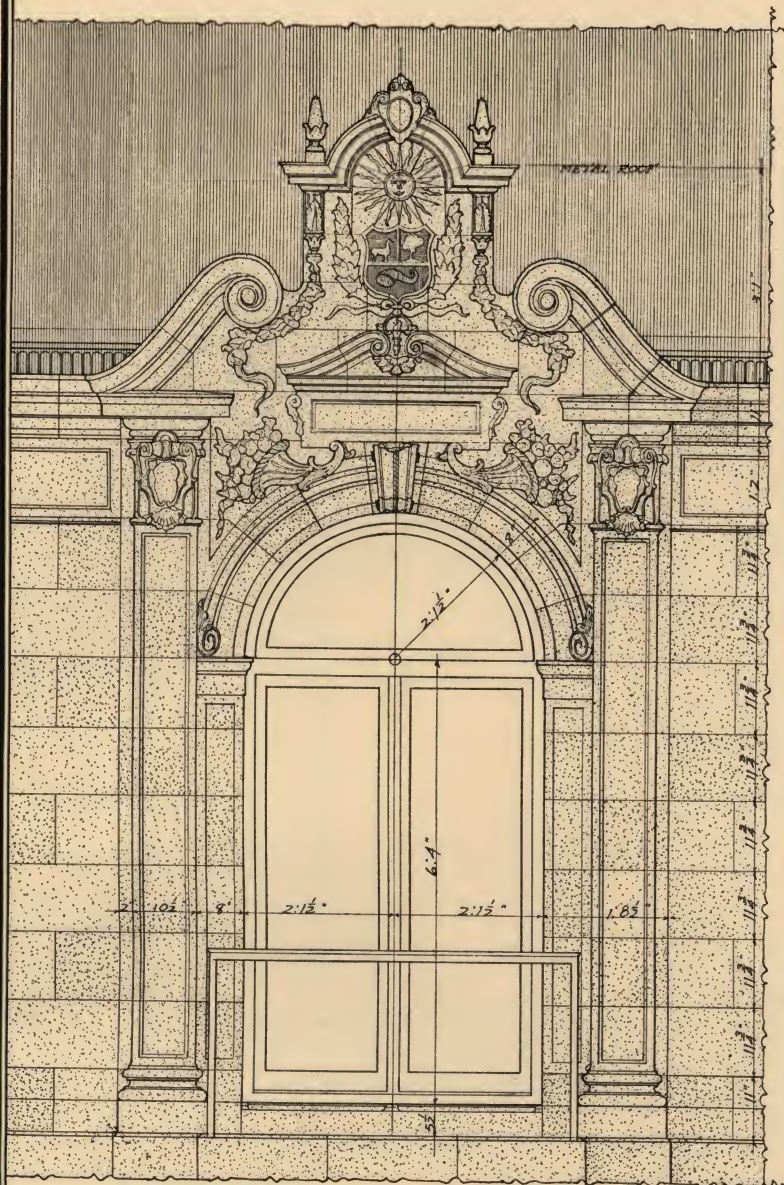
UNIVERSITY OF CHICAGO LIBRARY

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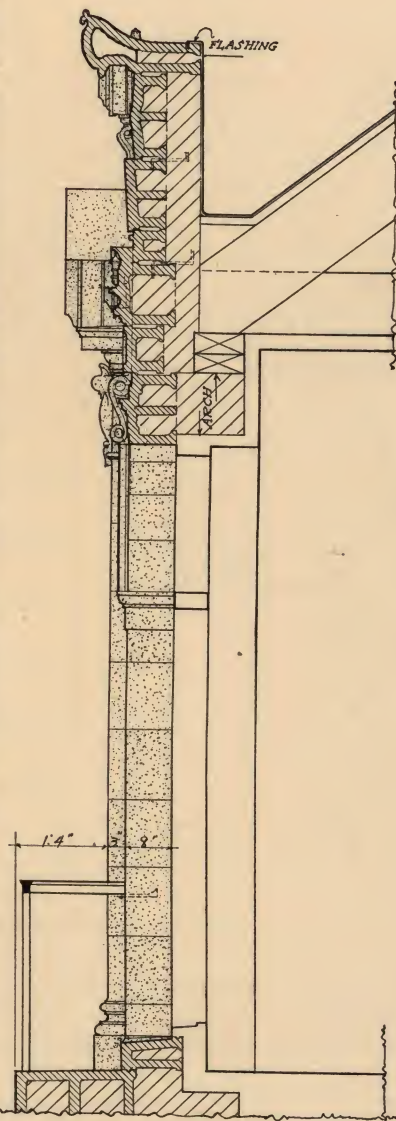


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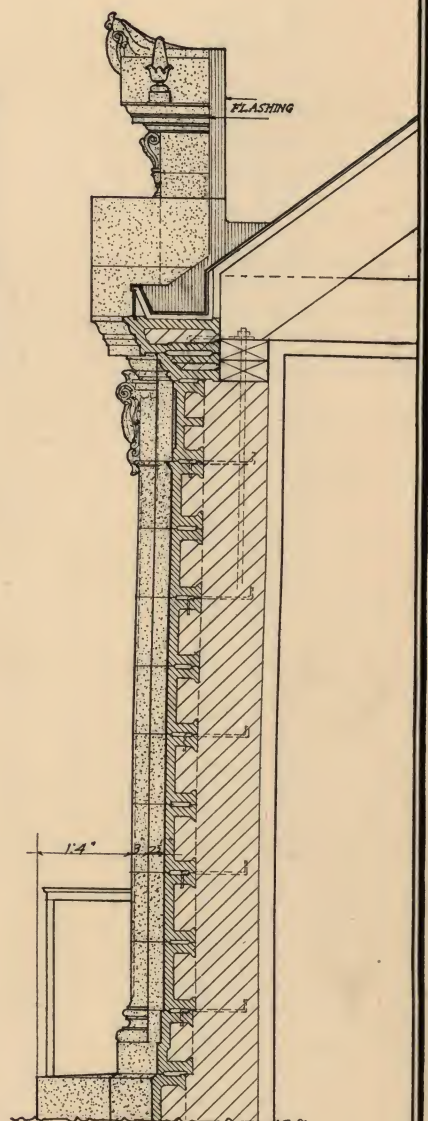
ATTIC STORY WINDOW · WITH PILASTERS · ARCH · PEDIMENT · AND BALCONY ·



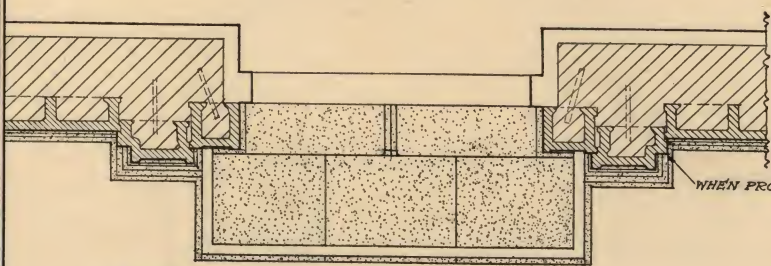
ELEVATION ·
FRONT OF WINDOW ·



SECTION ·
THRO' WINDOW ·



SECTION ·
THRO' SIDE ·



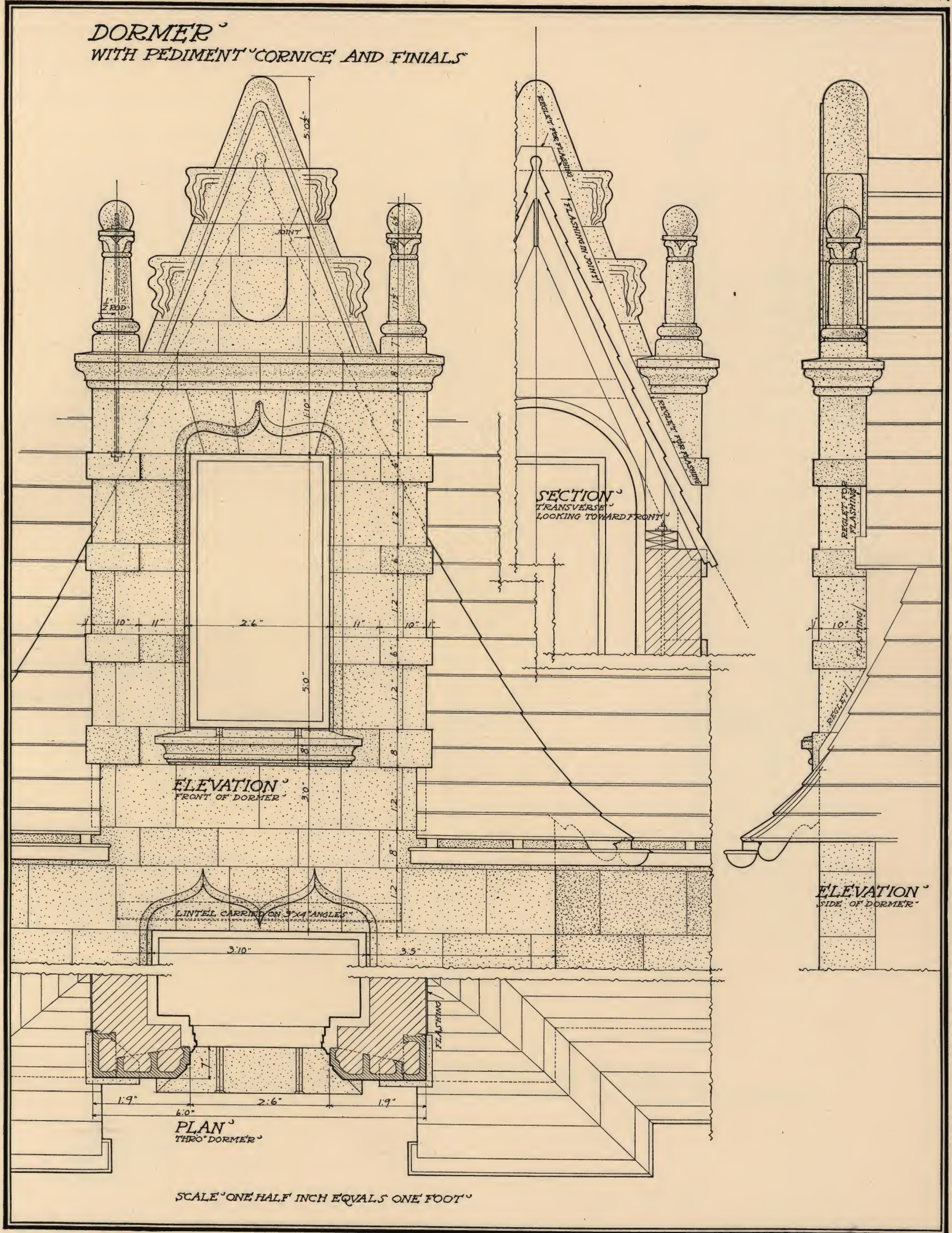
PLAN ·
THRO' WINDOW ·

WHEN PROJECTING ANGLES ARE 4° OR MORE · THEY SHOULD BE JOINTED SEPARATE · THUS ·

SCALE · THREE-EIGHTHS OF AN INCH EQVALS ONE FOOT ·



ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION





Architectural drawings of a Louvre Dormer with Pediment, Pinnacles, and Finials. The drawings include a front elevation, a side elevation, a section through the dormer, and a plan view. The front elevation shows a central arched window with a pediment and pinnacles. The side elevation shows the profile of the dormer with a sloped roof. The section through the dormer shows the internal structure and the roof pitch. The plan view shows the footprint of the dormer. The drawings are labeled with dimensions and construction details.

ELEVATION FRONT OF DORMER

SECTION THRO' DORMER

ELEVATION SIDE OF DORMER

PLAN THRO' DORMER

LOUVRE DORMER WITH PEDIMENT, PINNACLES AND FINIALS

SCALE: ONE-HALF INCH EQUALS ONE FOOT



This architectural drawing illustrates a classical niche with moulded trim and cornice. The central feature is the 'ELEVATION FRONT OF NICHE', which shows a semi-circular archway set within a wall of rectangular blocks. Above the arch is a decorative pediment with a central diamond-shaped motif and two circular medallions. The niche is flanked by two vertical pilasters. To the left, a 'SECTION THRO' WALL' shows the side profile of the niche, highlighting the depth of the arch and the wall structure. To the right, a 'SECTION THRO' NICHE' shows the internal structure of the arch, including the 'SEMI ARCH' and the supporting wall. Below the elevation, a 'SCALE: ONE-HALF INCH EQUALS FOOT' is provided. At the bottom, the 'PLAN THRO' NICHE' shows the top-down view of the arch and its base. The drawing is labeled 'NICHE WITH MOULDED TRIM AND CORNICE'.

ELEVATION
SIDE OF NICHE
SECTION THRO' WALL

ELEVATION
FRONT OF NICHE

SECTION
THRO' NICHE

SEMI ARCH

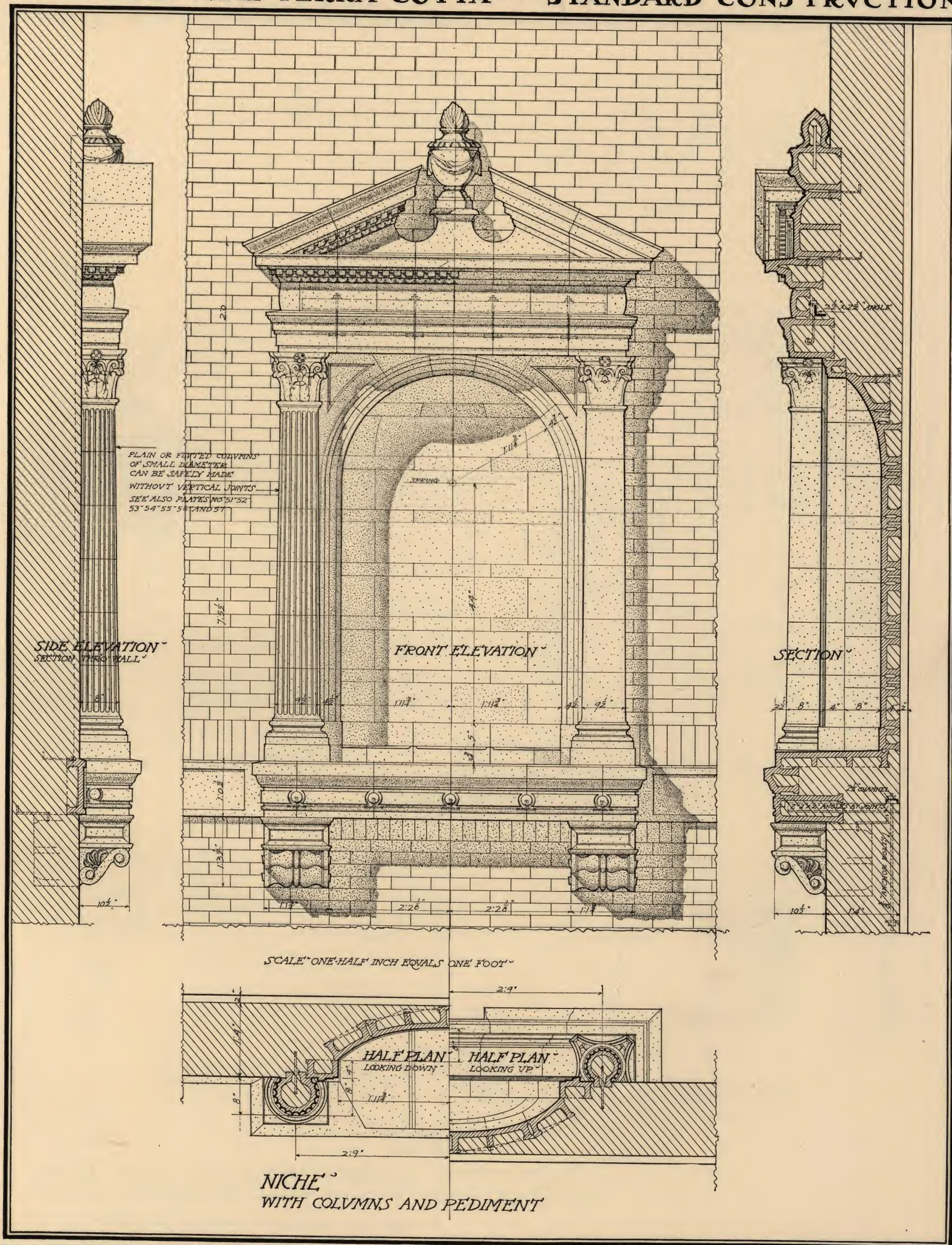
SCALE: ONE-HALF INCH EQUALS FOOT

NICHE
WITH MOULDED TRIM AND CORNICE

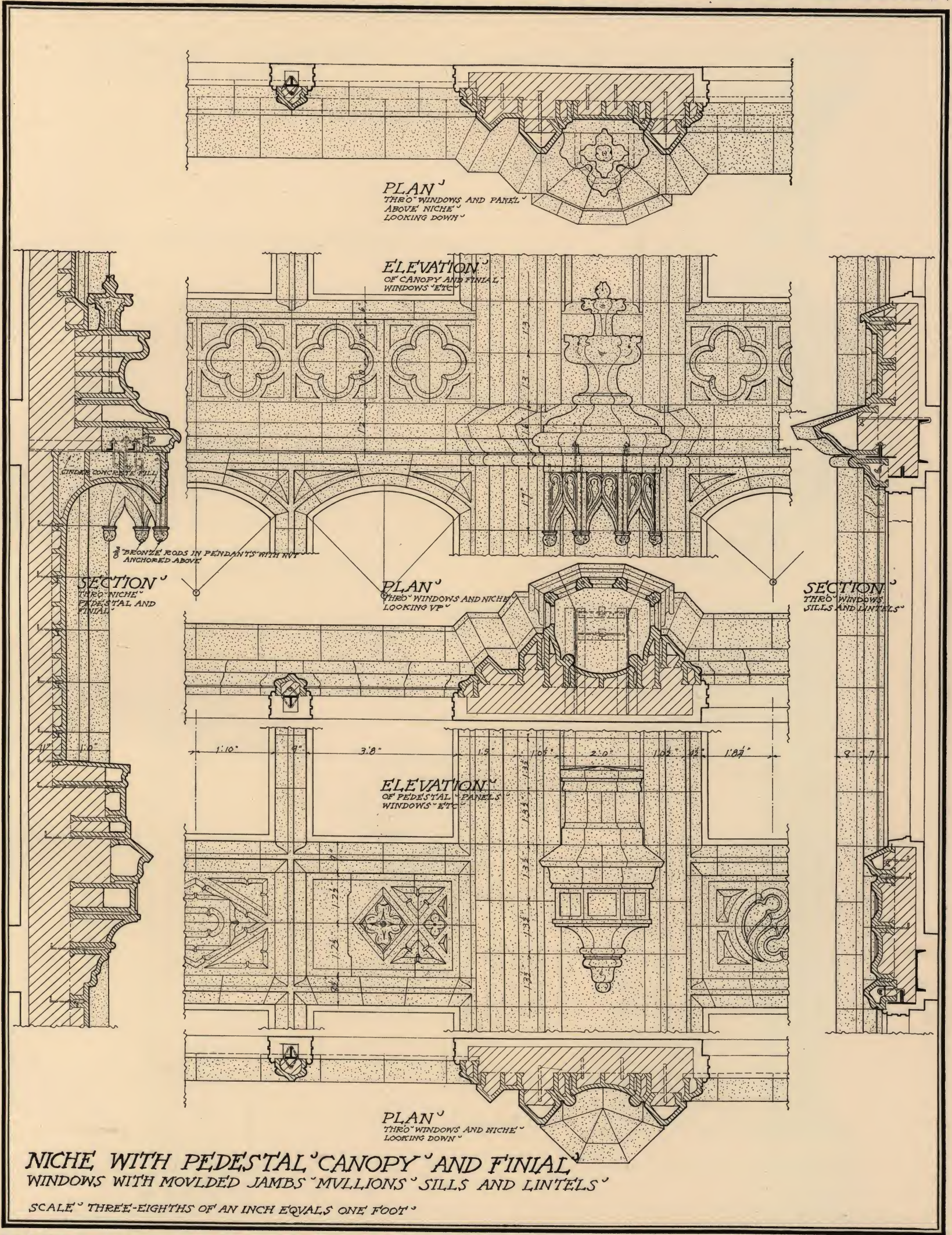
PLAN
THRO' NICHE



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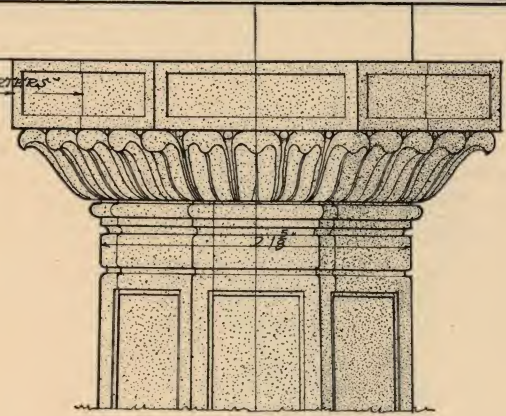
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OCTAGON COLUMN³ WITH CAPITAL AND BASE³

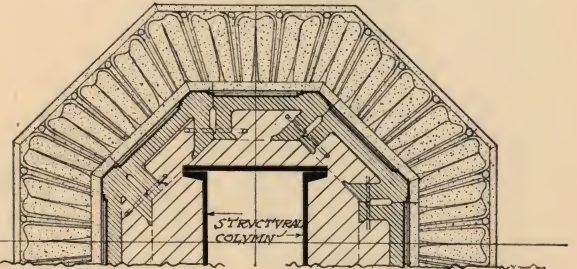
SCALE · THREE-QUARTERS OF AN INCH EQUALS ONE FOOT³

ABACUS JOINED INTO QUARTERS³

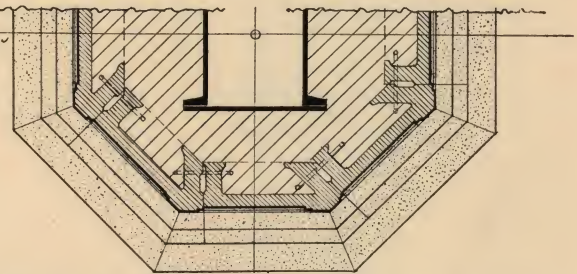
ELEVATION³
CAPITAL OF COLUMN³



PLAN³ THRO' NECK³
LOOKING UP³

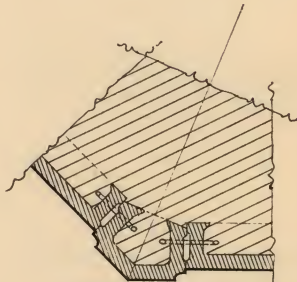
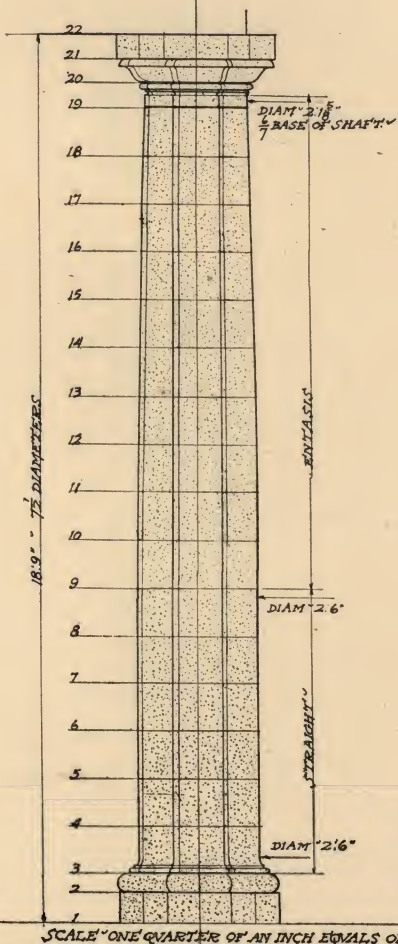


PLAN³ THRO' BOTTOM³
LOOKING DOWN³



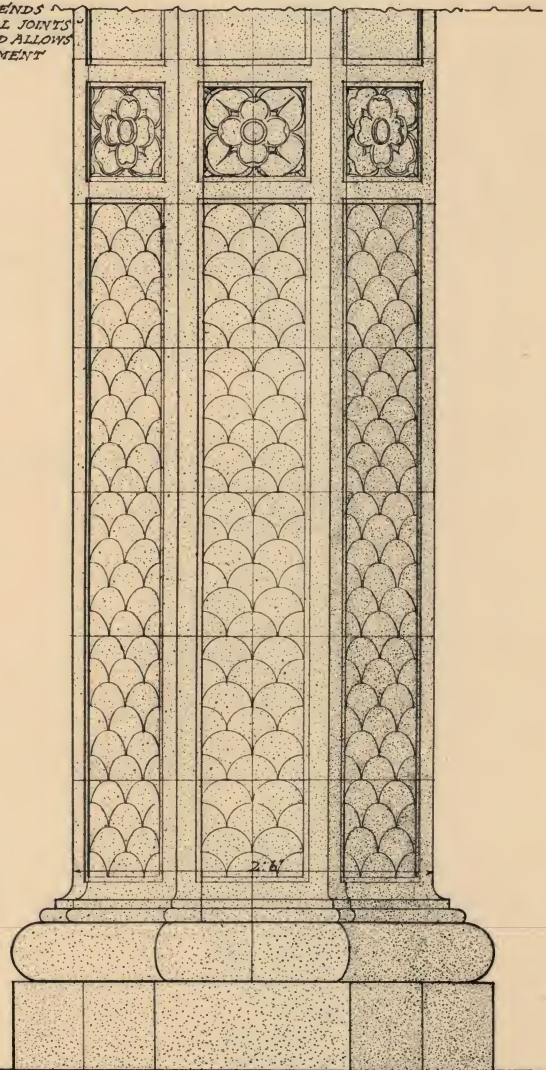
DIAGRAM³ OF METHOD FOR OBTAINING ENTASIS OF SHAFT³
LAY OUT ACCURATELY TO FULL SIZE OF COLUMN³
A·B·C·AND·D·CAN THEN BE ACCURATELY MEASURED³
GIVING THE DIAMETERS AT 11·13·15·AND·17³

THE SHAFT AS JOINED TENDS³
TO CONCEAL THE VERTICAL JOINTS³
PERMITS CLOSE FITTING AND ALLOWS³
OF ADJUSTMENT IN ALIGNMENT³
IN SETTING³



THE MOULDED CORNERS³
OF LARGE COLUMNS³
SHOULD BE JOINTED³
SEPARATE³

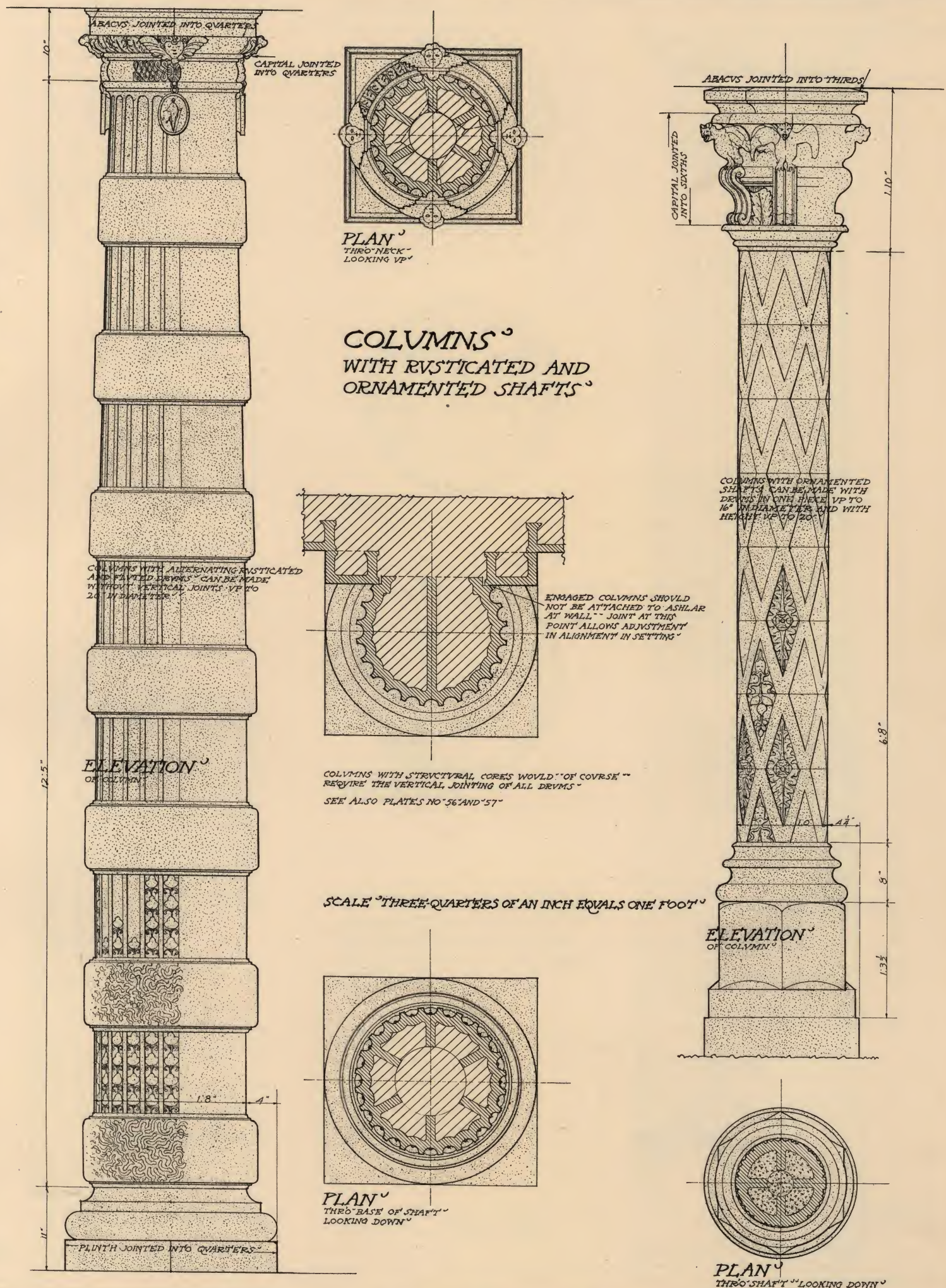
ELEVATION³
BASE OF COLUMN³

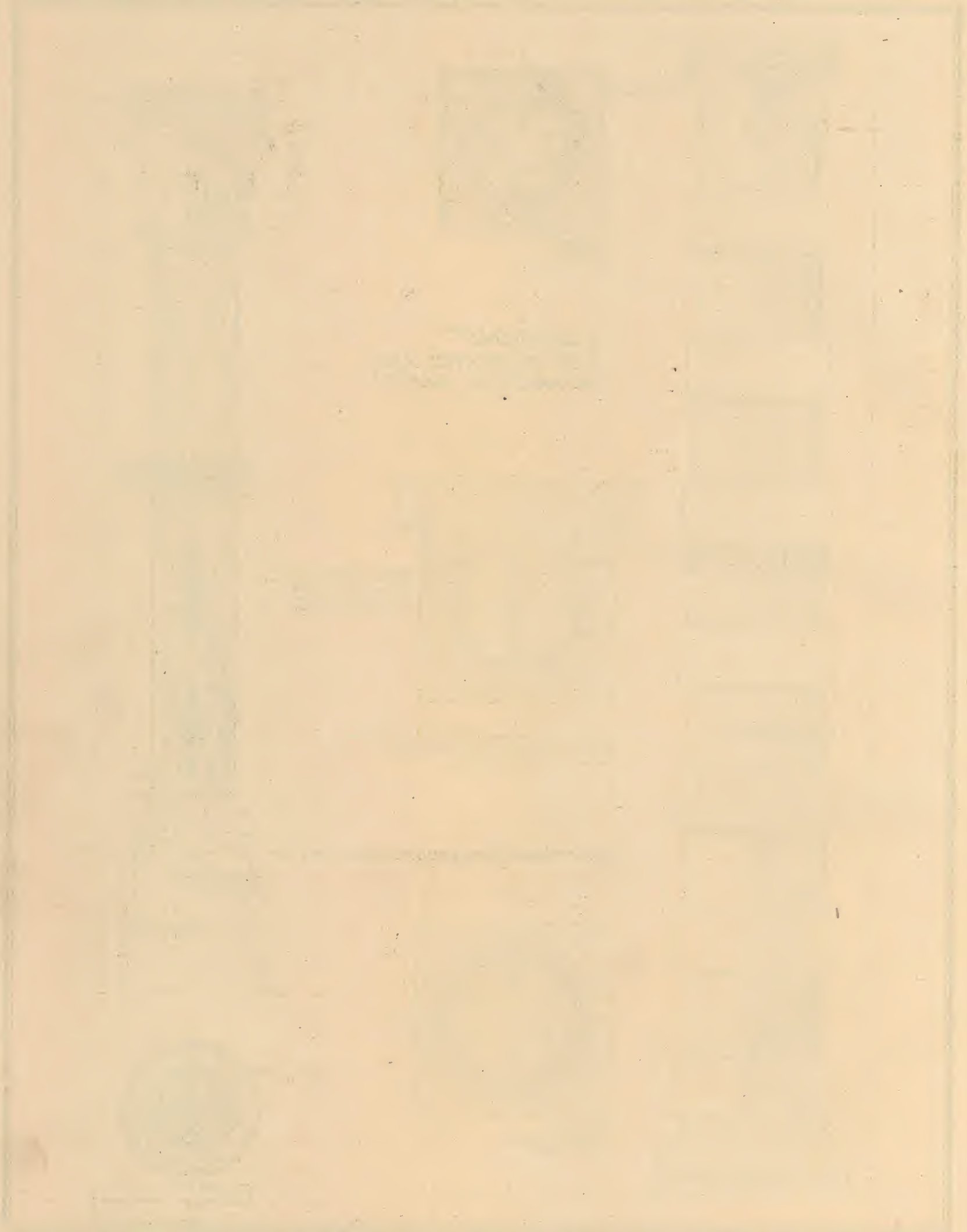


SCALE · ONE-QUARTER OF AN INCH EQUALS ONE FOOT³

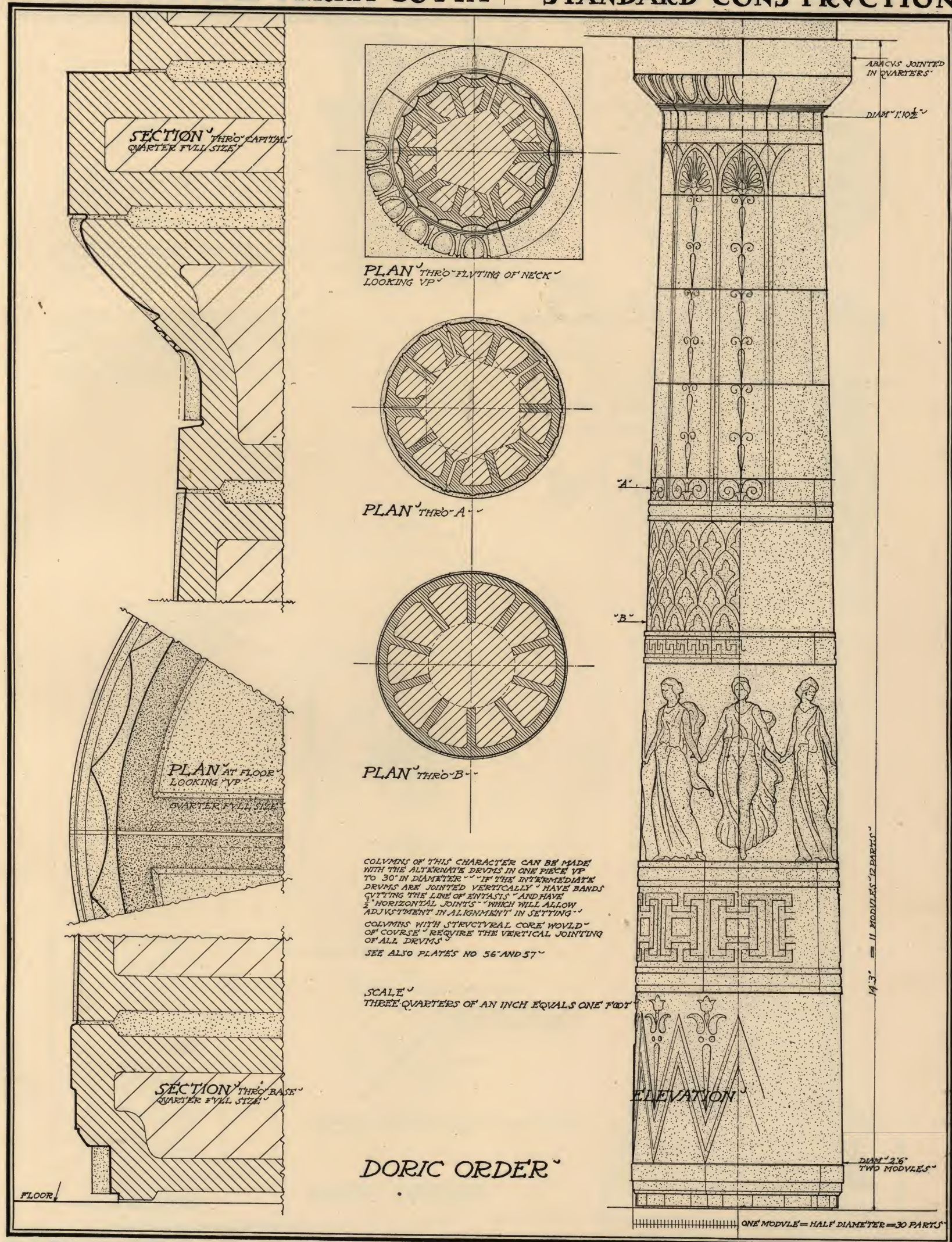


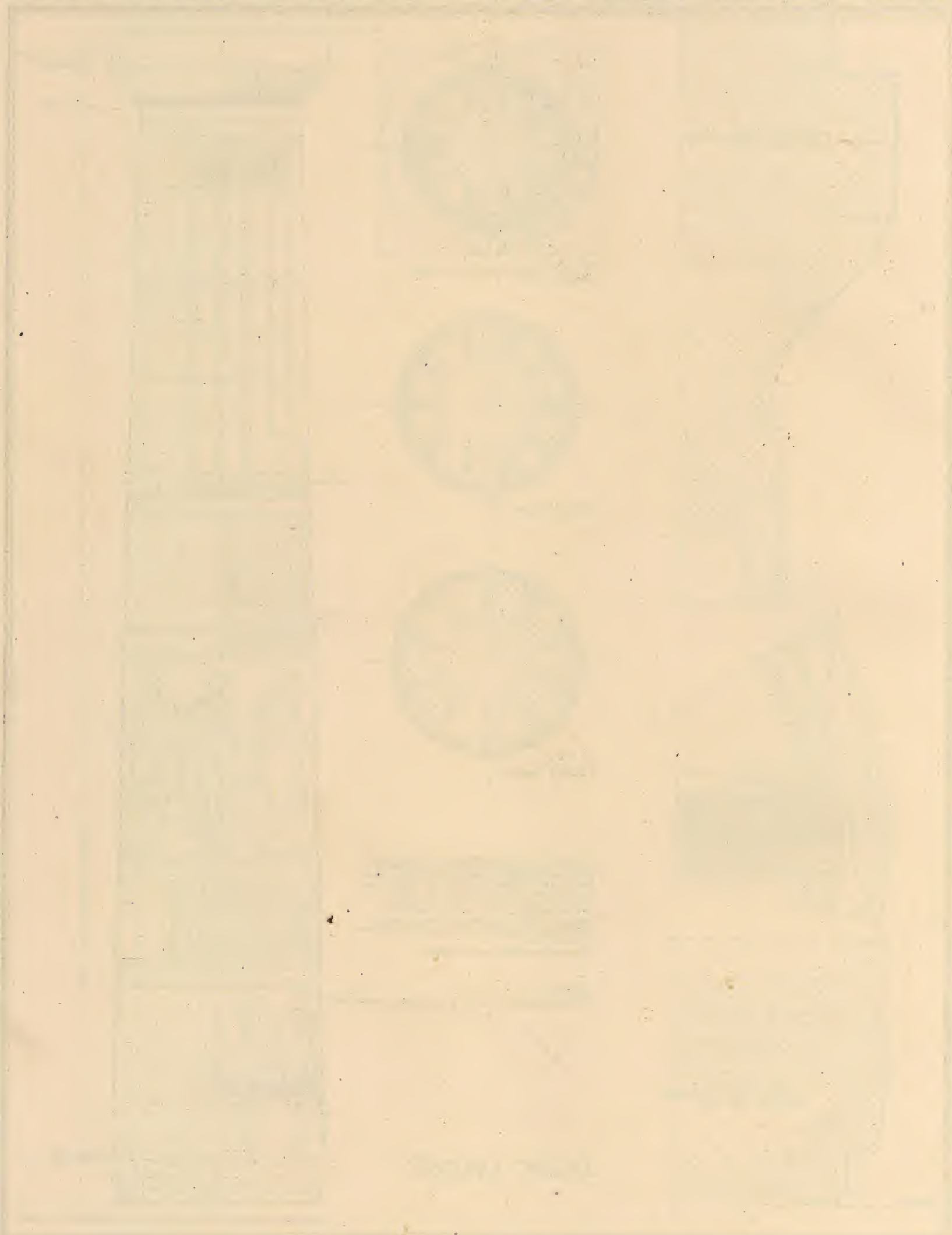
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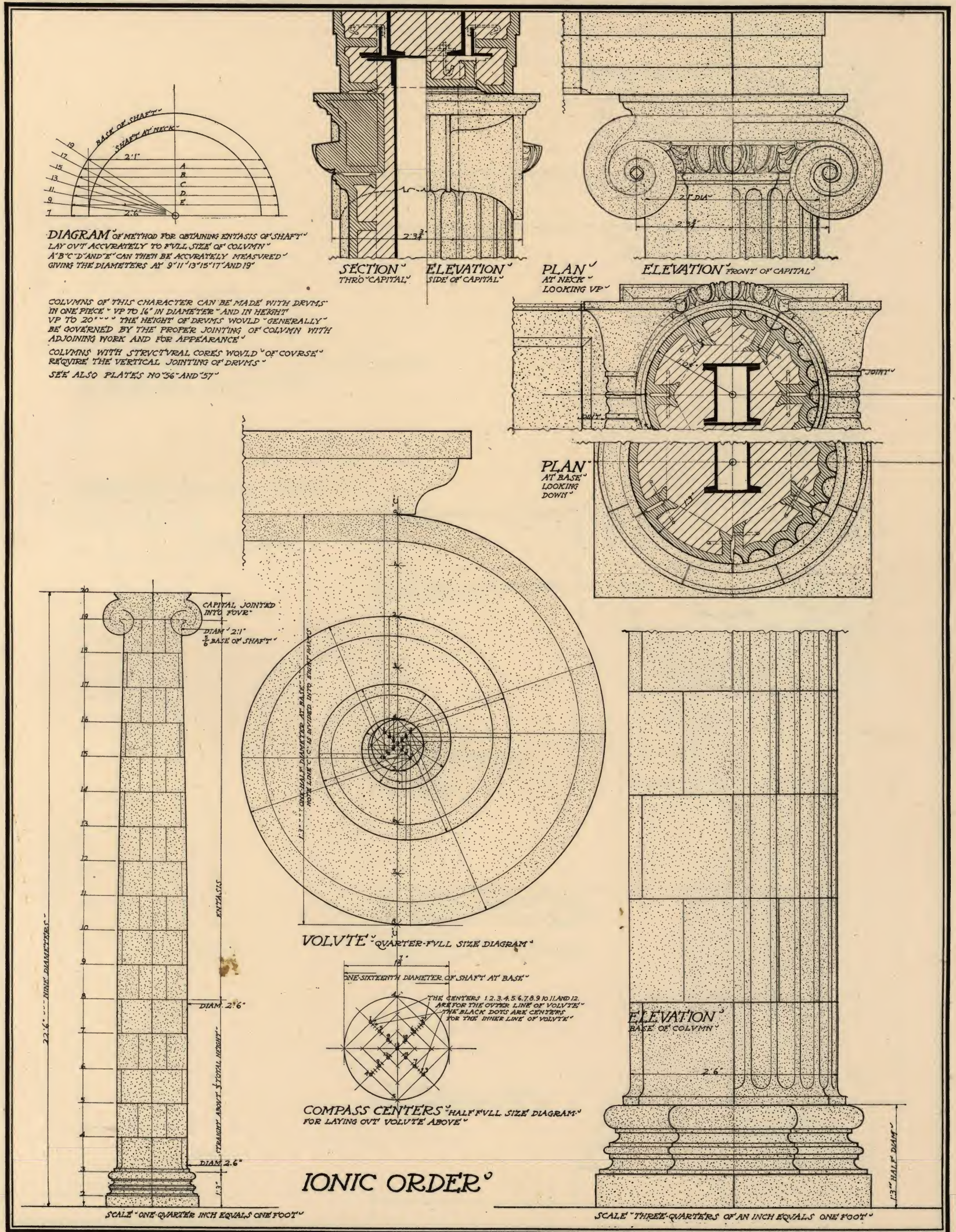


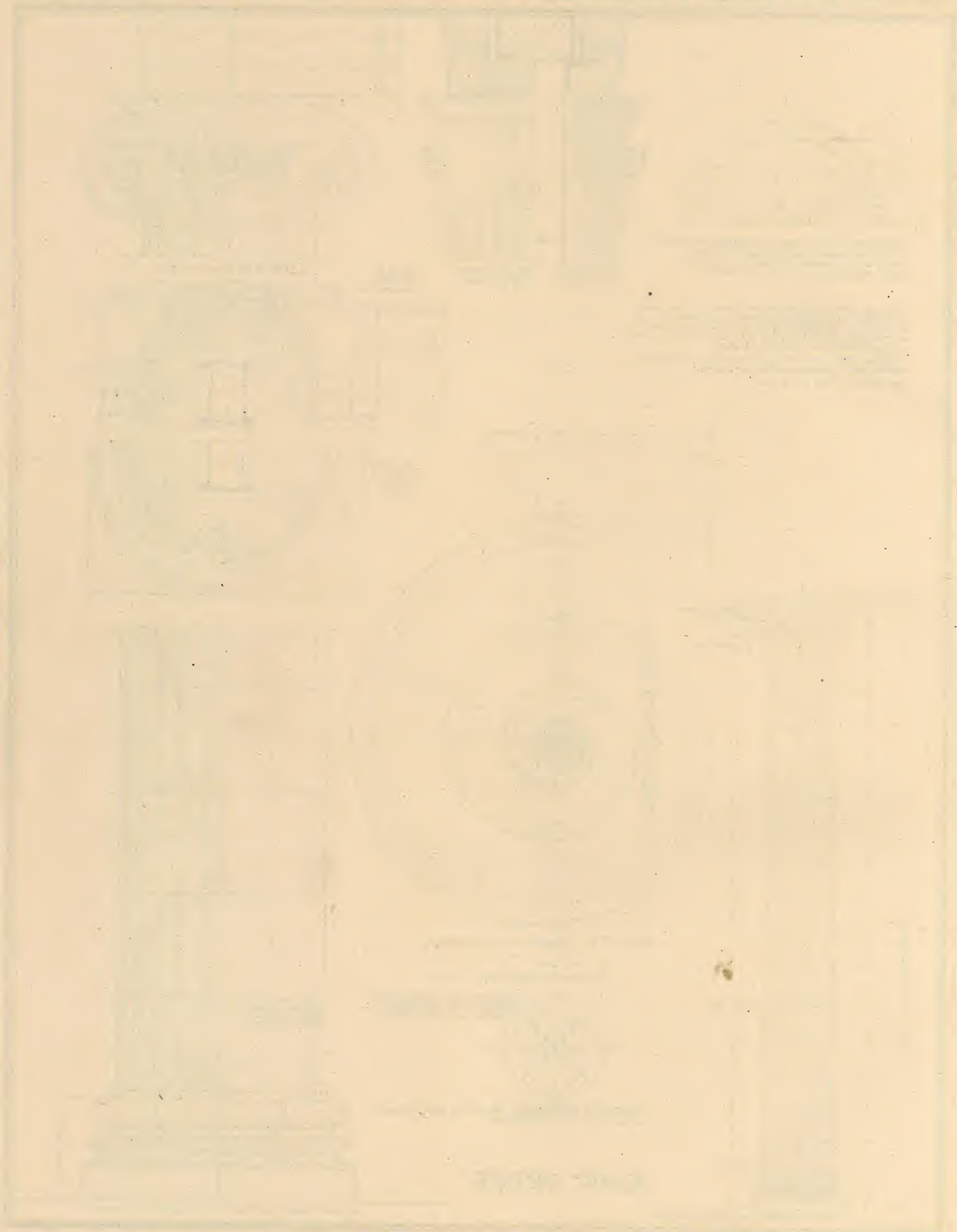
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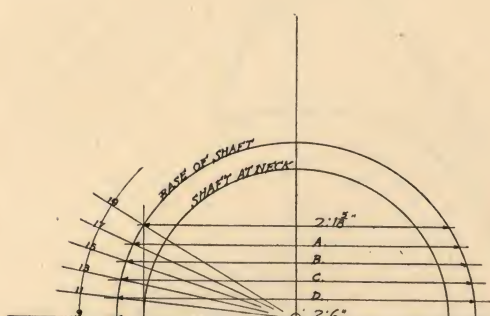
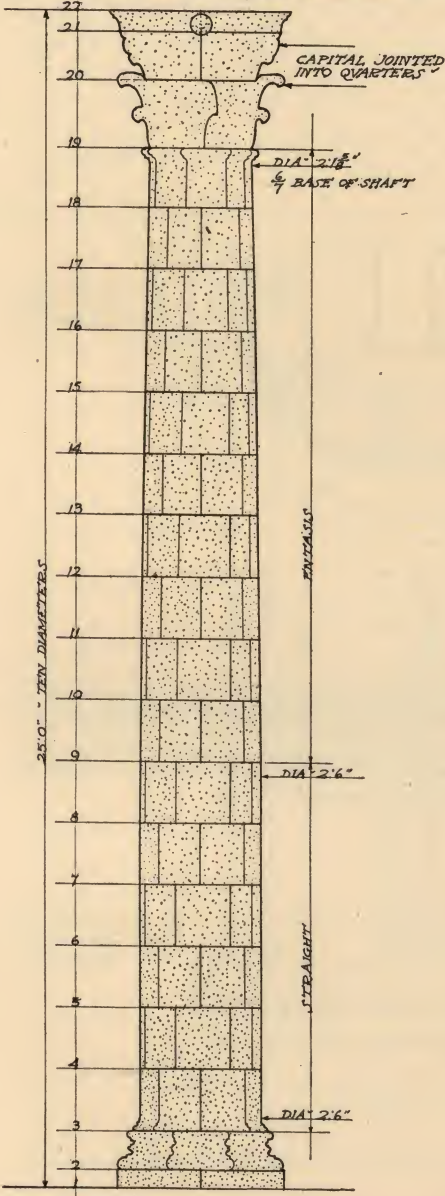


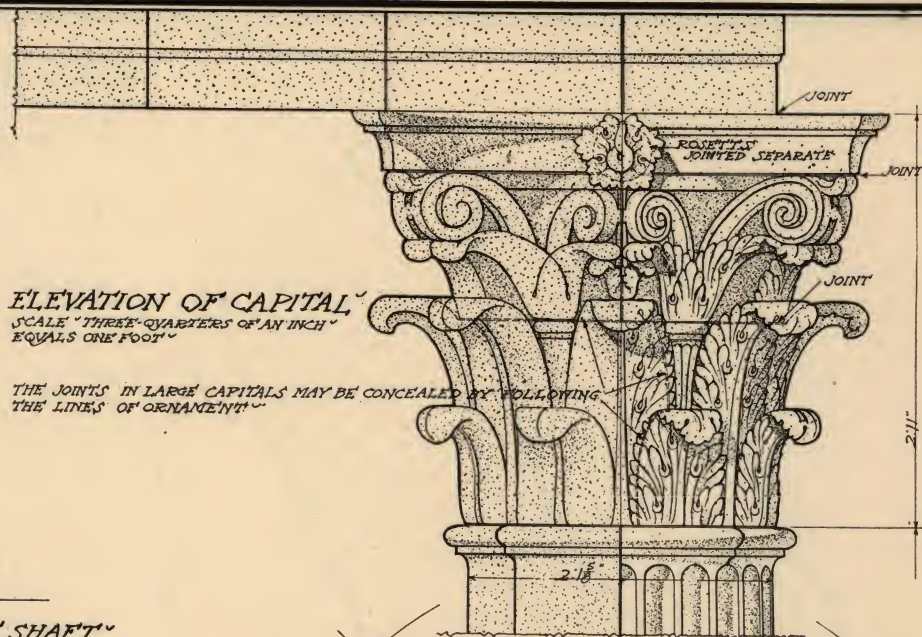
DIAGRAM FOR OBTAINING ENTASIS OF SHAFT
LAY OUT ACCURATELY TO FULL SIZE OF COLUMN
A·B·C·AND·D·CAN THEN BE ACCURATELY MEASURED
GIVING THE DIAMETERS AT 11·13·15·AND 17·

DIAGRAM OF JOINTING AND ENTASIS
SCALE · ONE INCH EQUALS FOUR FEET



ELEVATION OF CAPITAL
SCALE · THREE-QUARTERS OF AN INCH
EQUALS ONE FOOT

THE JOINTS IN LARGE CAPITALS MAY BE CONCEALED BY FOLLOWING THE LINES OF ORNAMENT



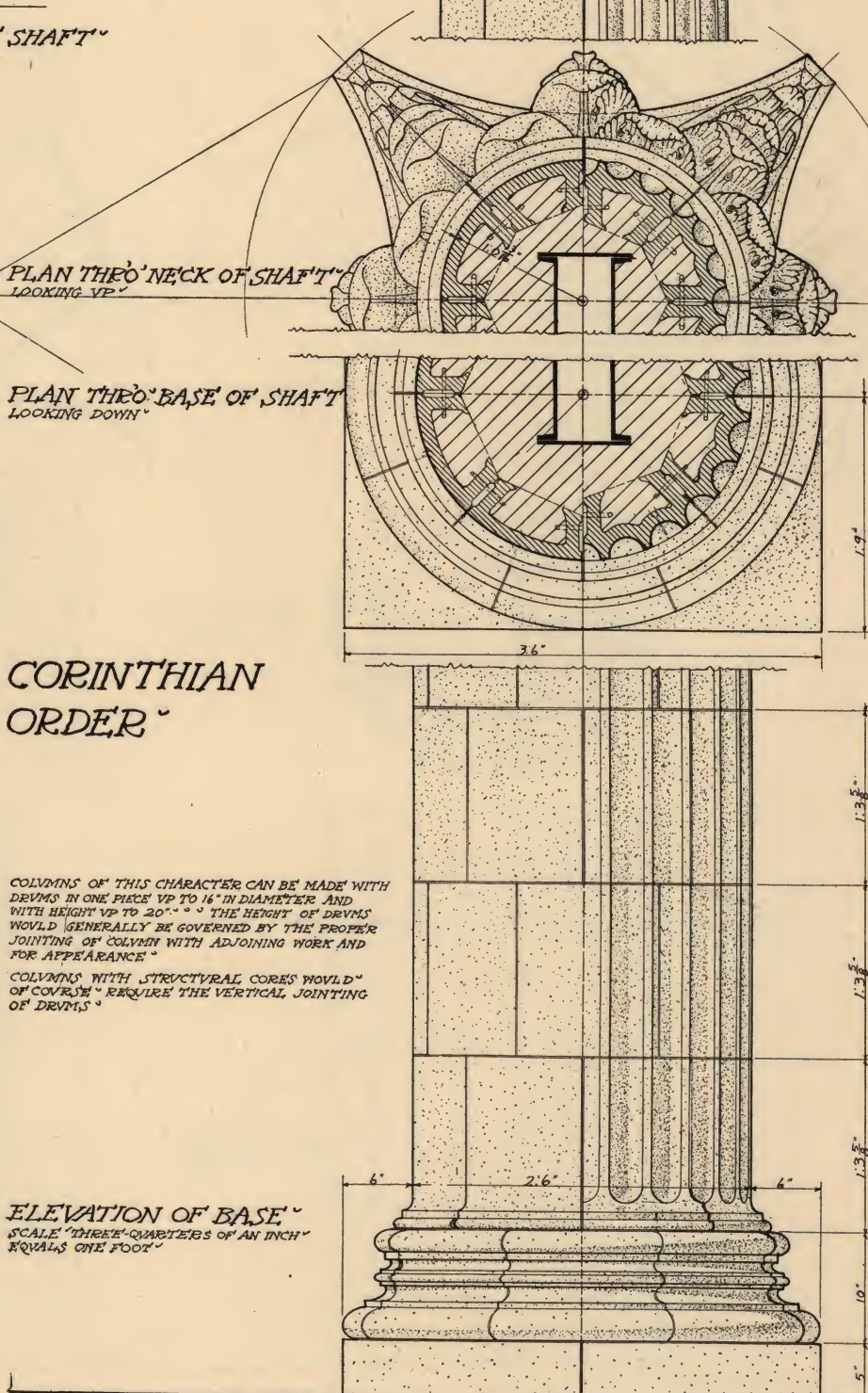
PLAN THROUGH NECK OF SHAFT
LOOKING UP

PLAN THROUGH BASE OF SHAFT
LOOKING DOWN

CORINTHIAN ORDER

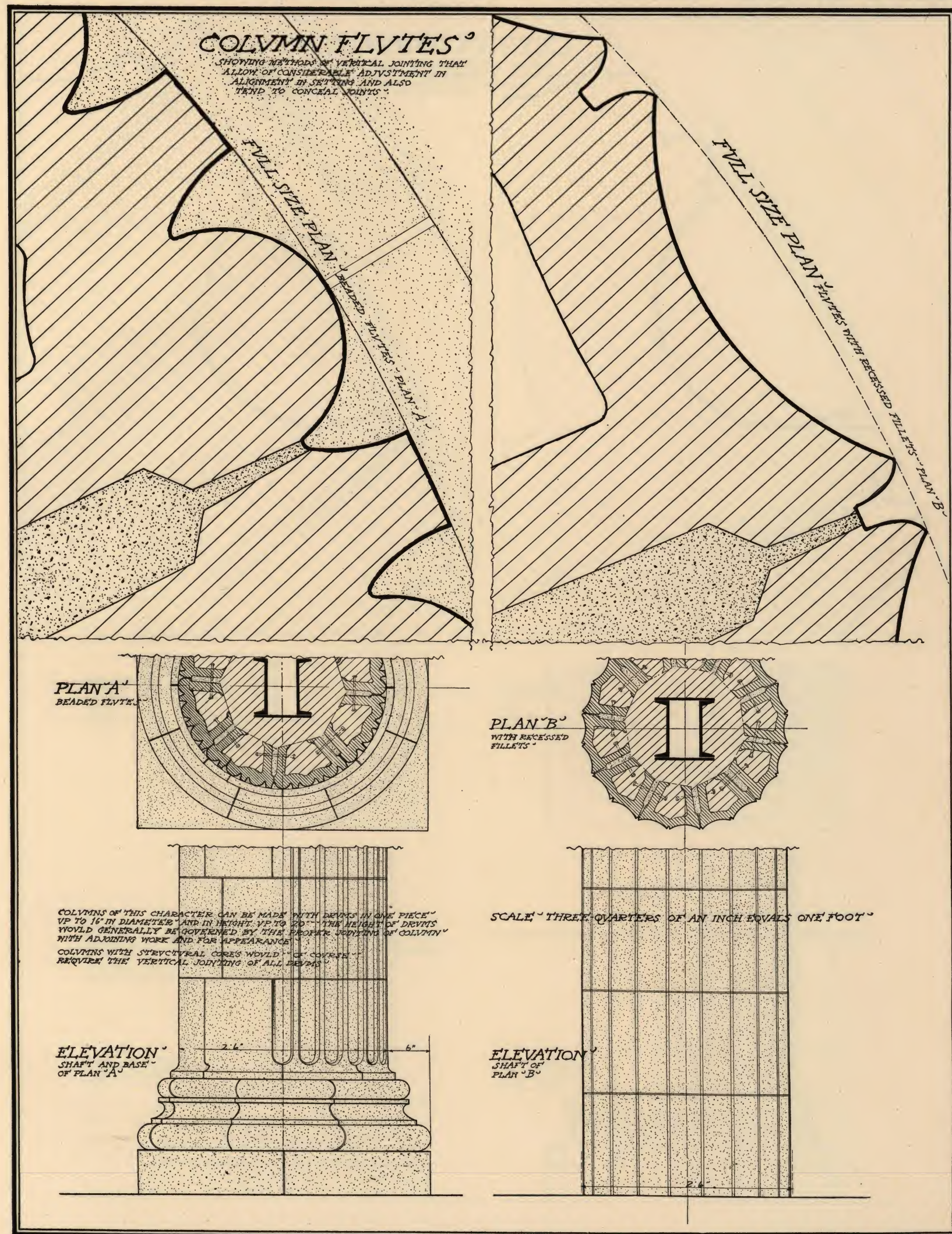
COLUMNS OF THIS CHARACTER CAN BE MADE WITH DRUMS IN ONE PIECE UP TO 16" IN DIAMETER AND WITH HEIGHT UP TO 20" · · · THE HEIGHT OF DRUMS WOULD GENERALLY BE GOVERNED BY THE PROPER JOINTING OF COLUMN WITH ADJOINING WORK AND FOR APPEARANCE
COLUMNS WITH STRUCTURAL CORES WOULD OF COURSE REQUIRE THE VERTICAL JOINTING OF DRUMS

ELEVATION OF BASE
SCALE · THREE-QUARTERS OF AN INCH
EQUALS ONE FOOT



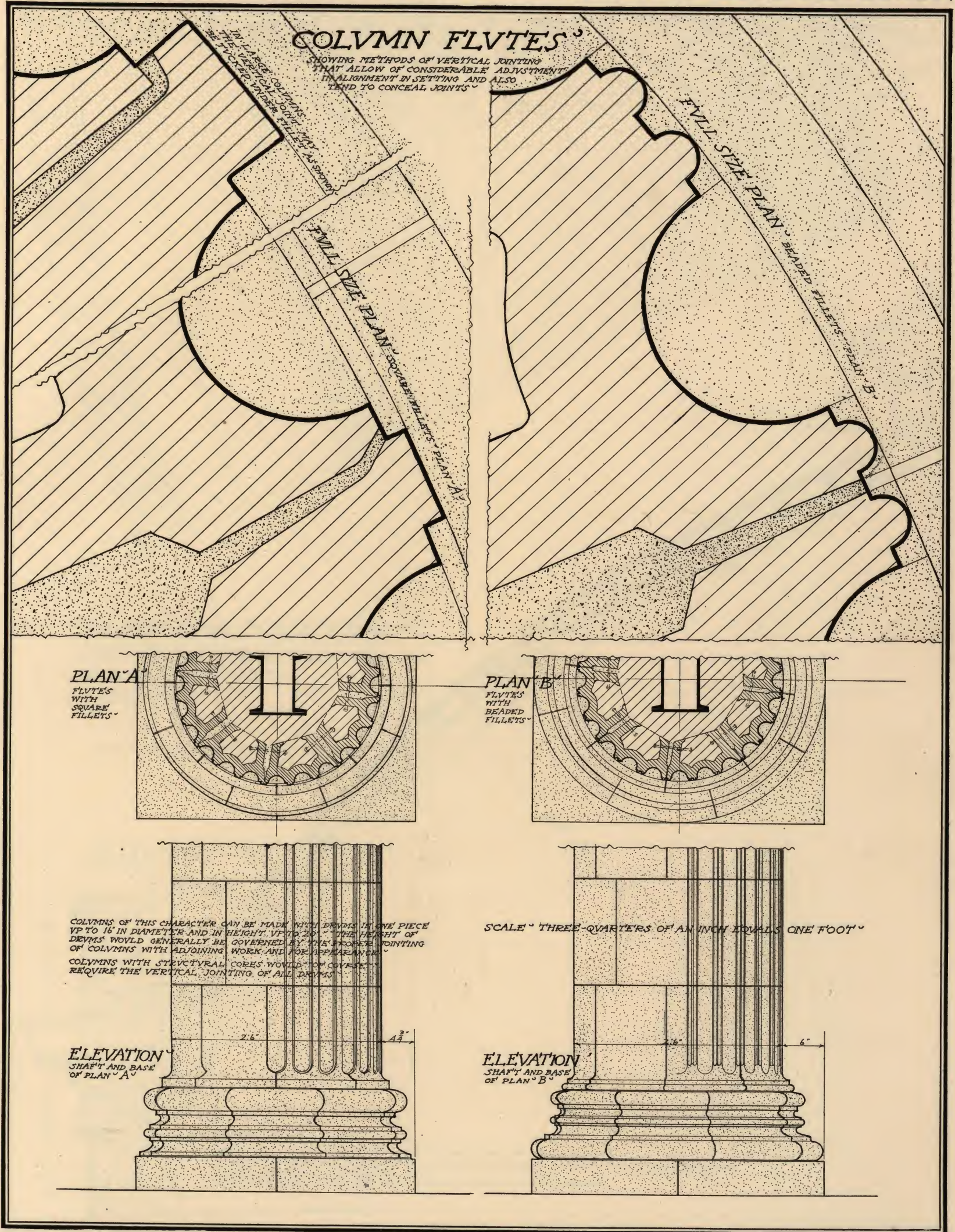


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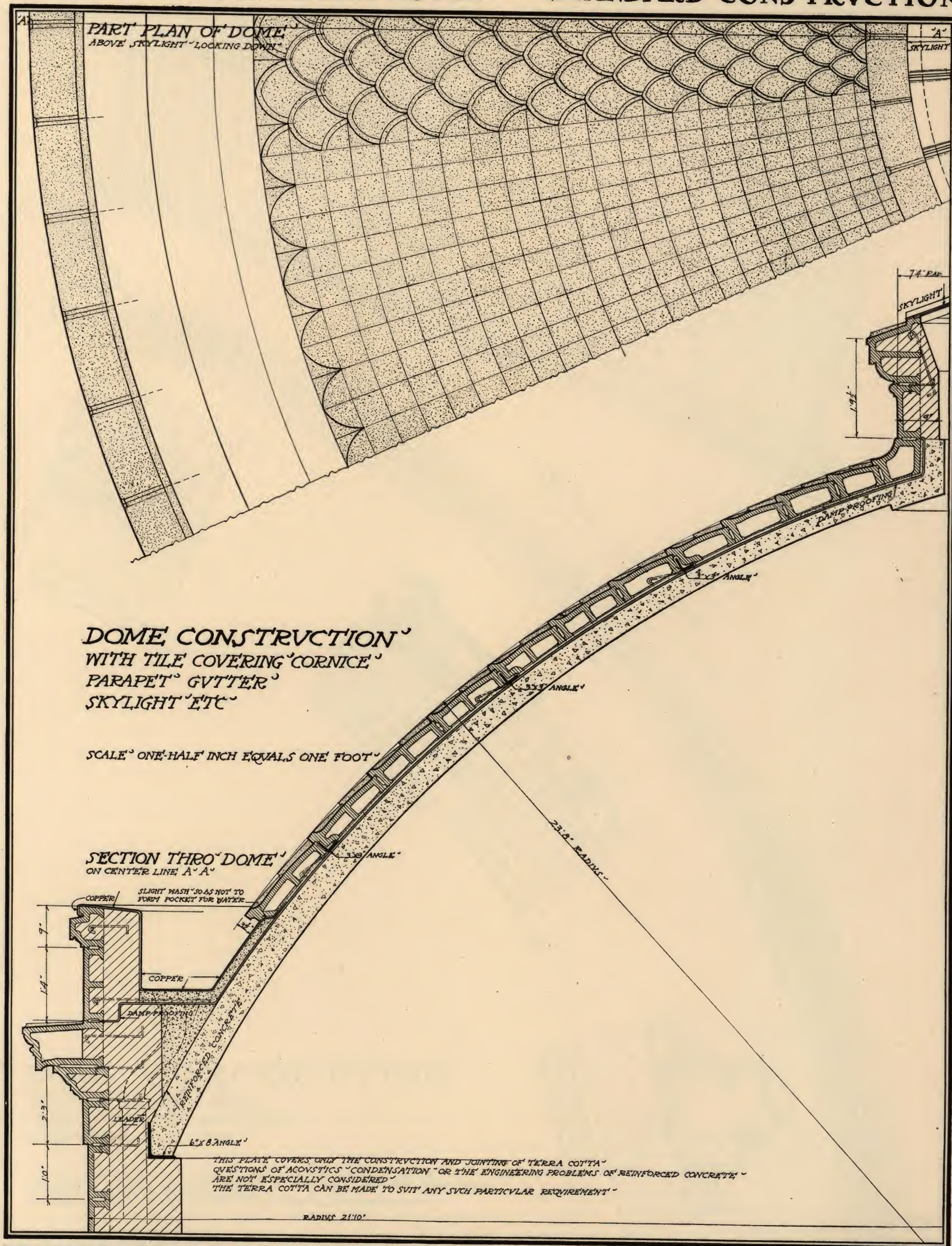


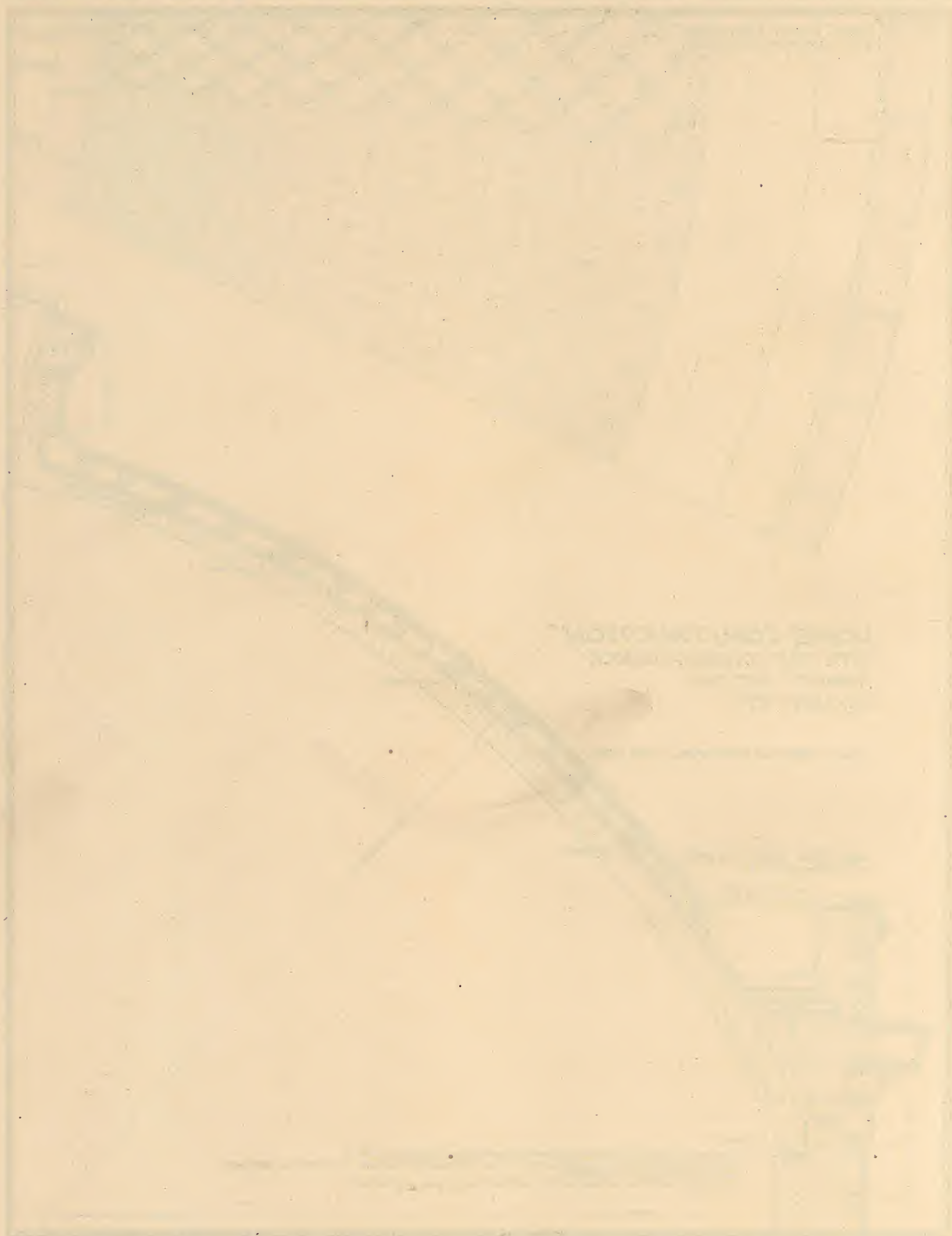
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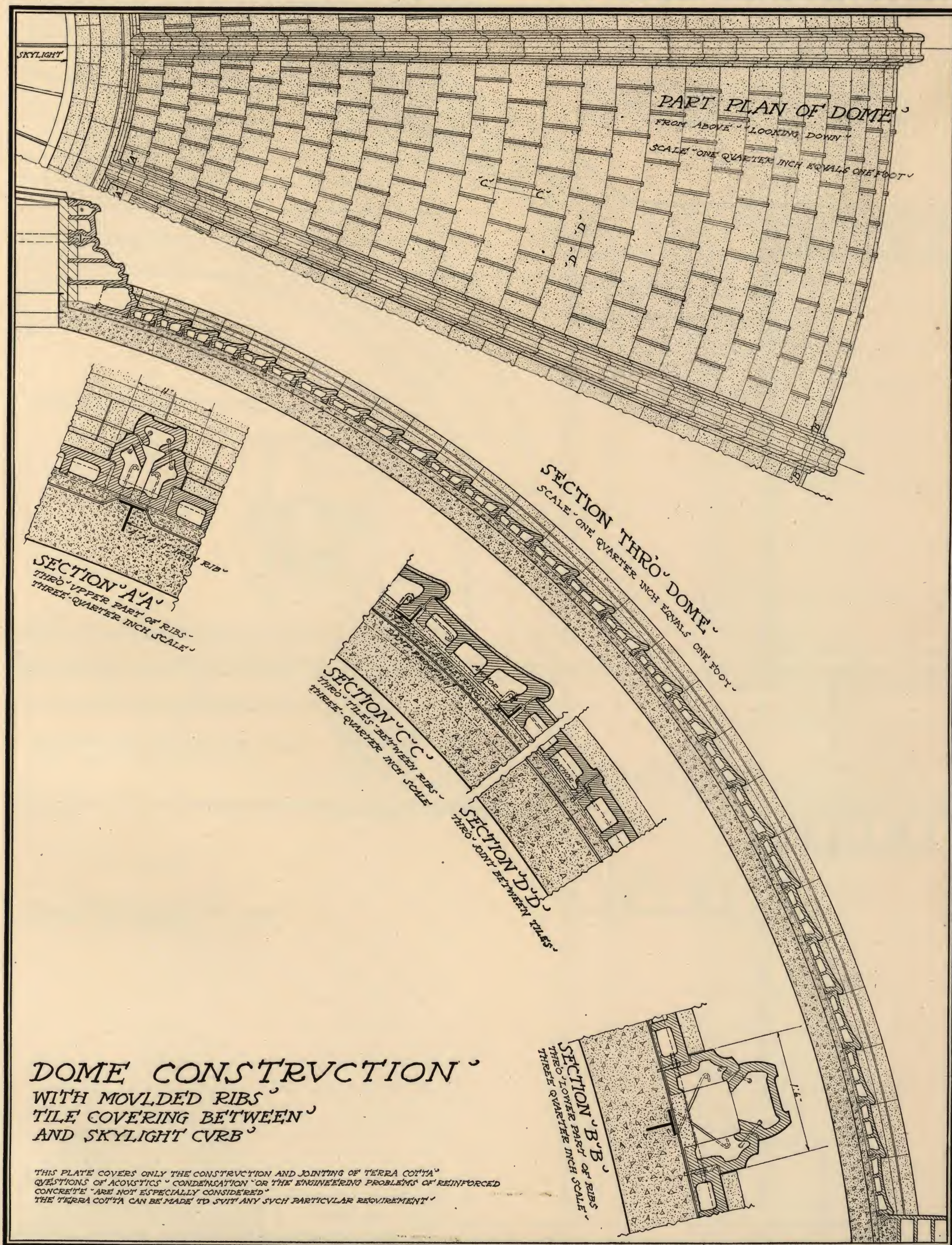


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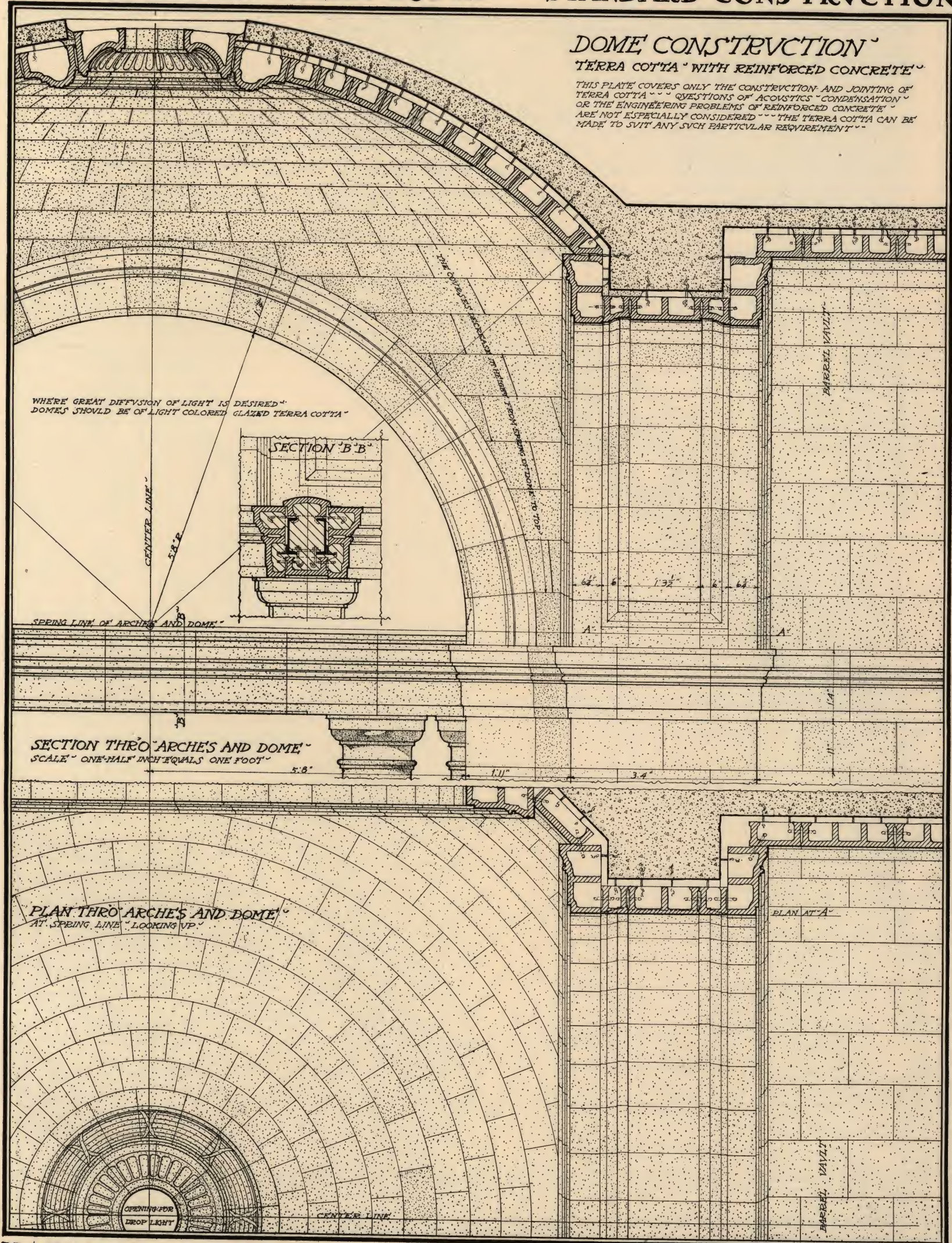
NOTE: THE DRAWING IS FOR INFORMATION ONLY AND IS NOT TO BE USED FOR CONSTRUCTION.

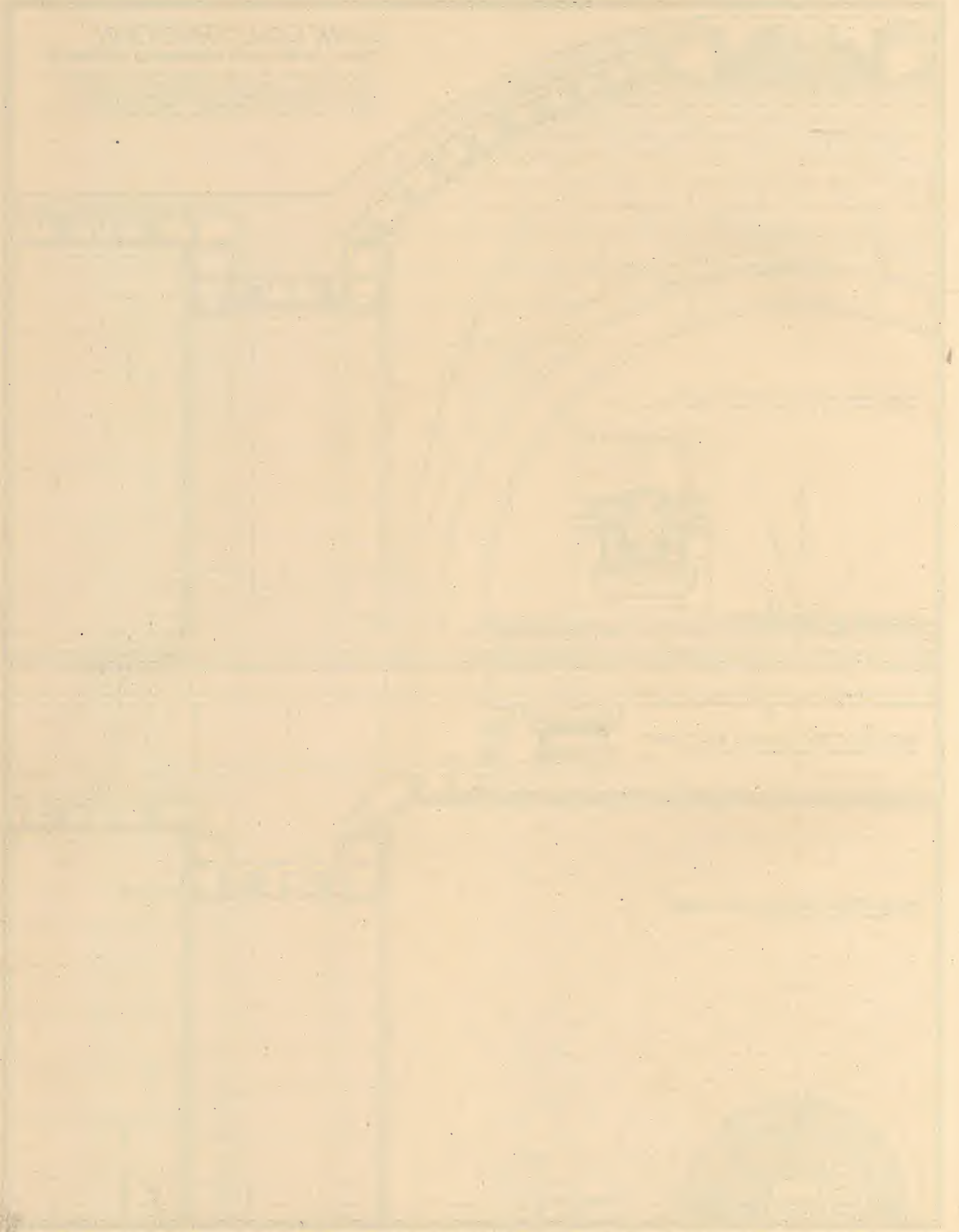
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DOME CONSTRUCTION

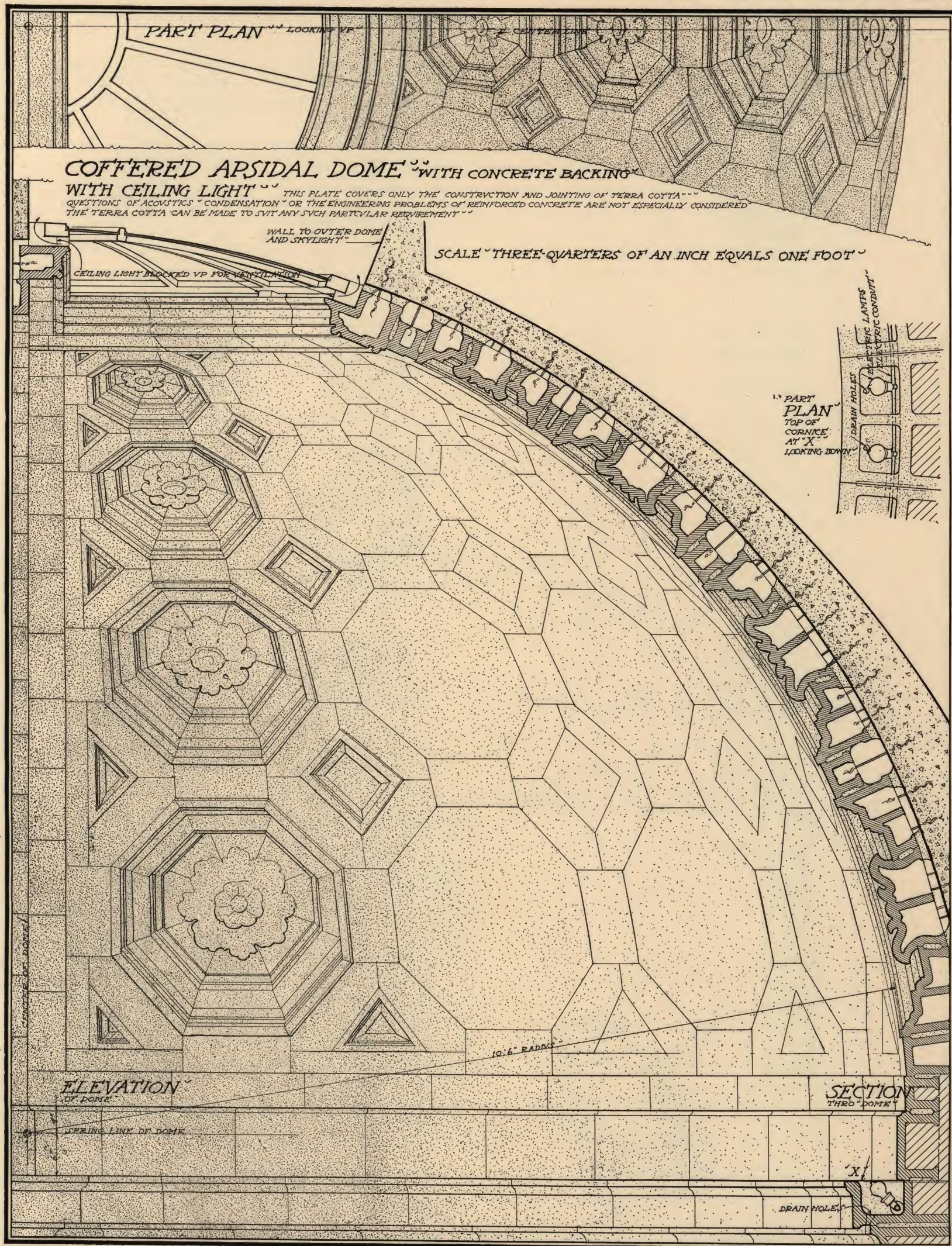
TERRA COTTA WITH REINFORCED CONCRETE

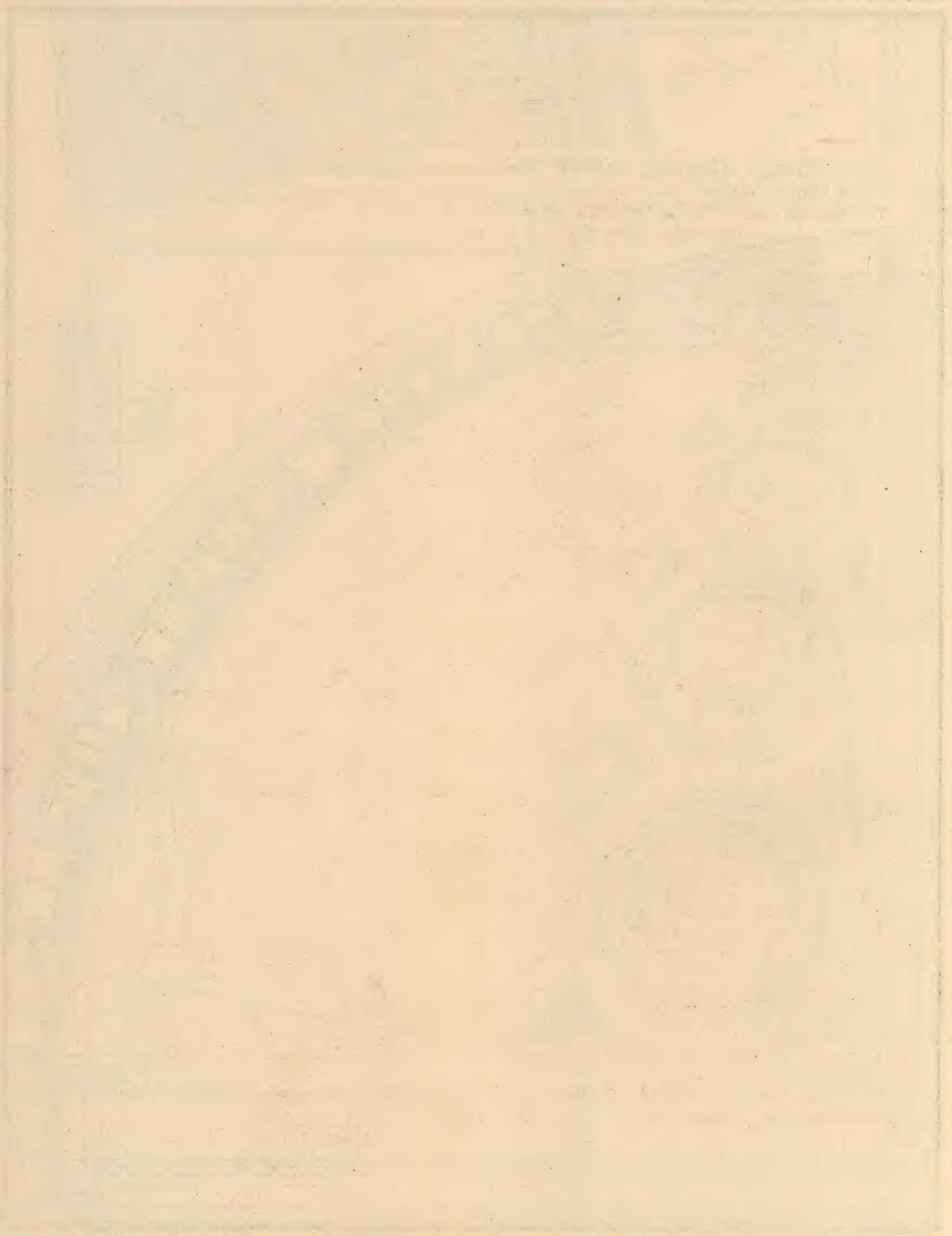
THIS PLATE COVERS ONLY THE CONSTRUCTION AND JOINTING OF TERRA COTTA. QUESTIONS OF ACOUSTICS, CONDENSATION, OR THE ENGINEERING PROBLEMS OF REINFORCED CONCRETE ARE NOT ESPECIALLY CONSIDERED. THE TERRA COTTA CAN BE MADE TO SUIT ANY SUCH PARTICULAR REQUIREMENT.



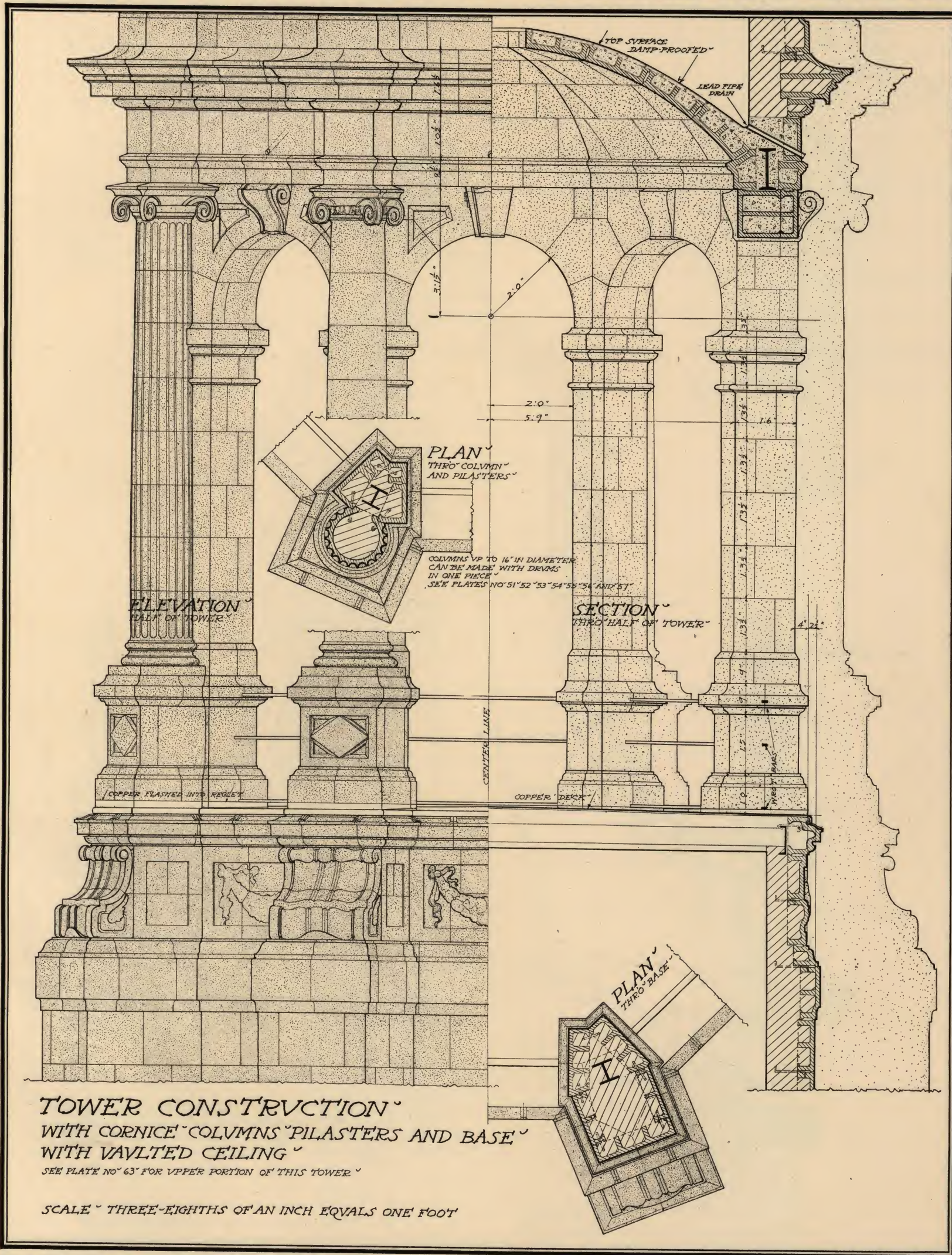


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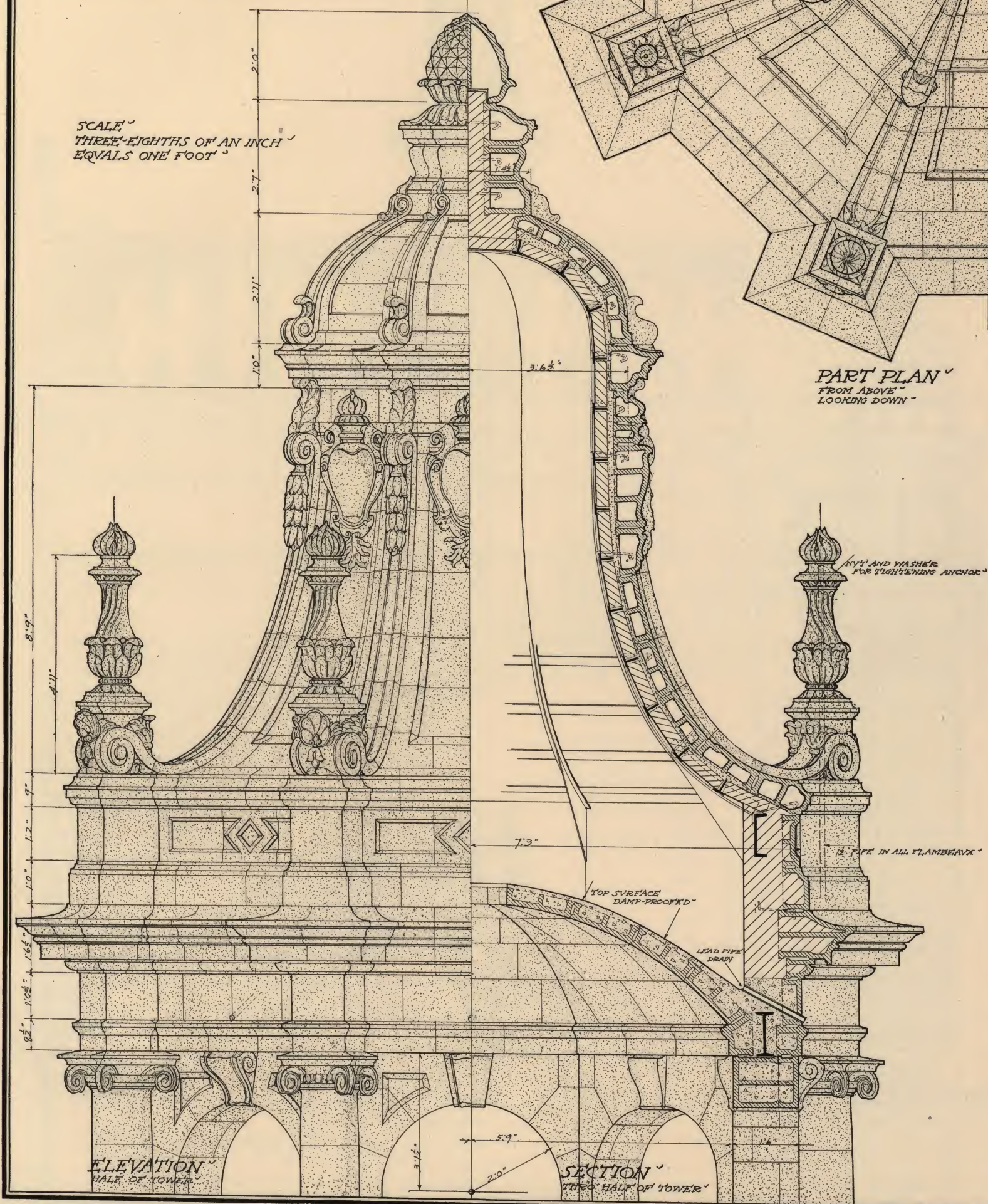




ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

TOWER CONSTRUCTION
WITH CORNICE FLAMBEAUX
CAROUCES RIBS AND CROWN
SEE PLATE NO. 62 FOR LOWER PORTION OF THIS TOWER

SCALE
THREE-EIGHTHS OF AN INCH
EQUALS ONE FOOT

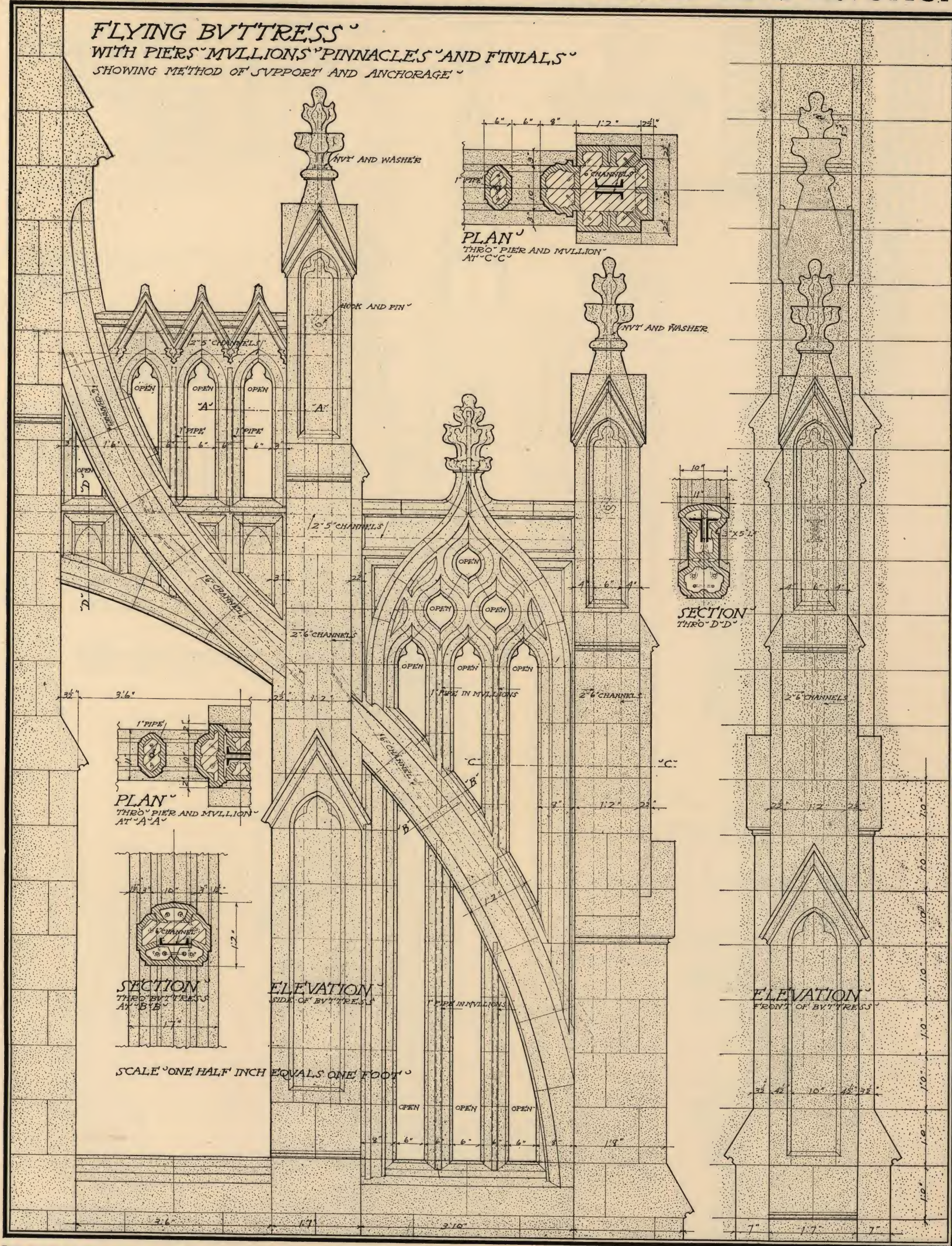




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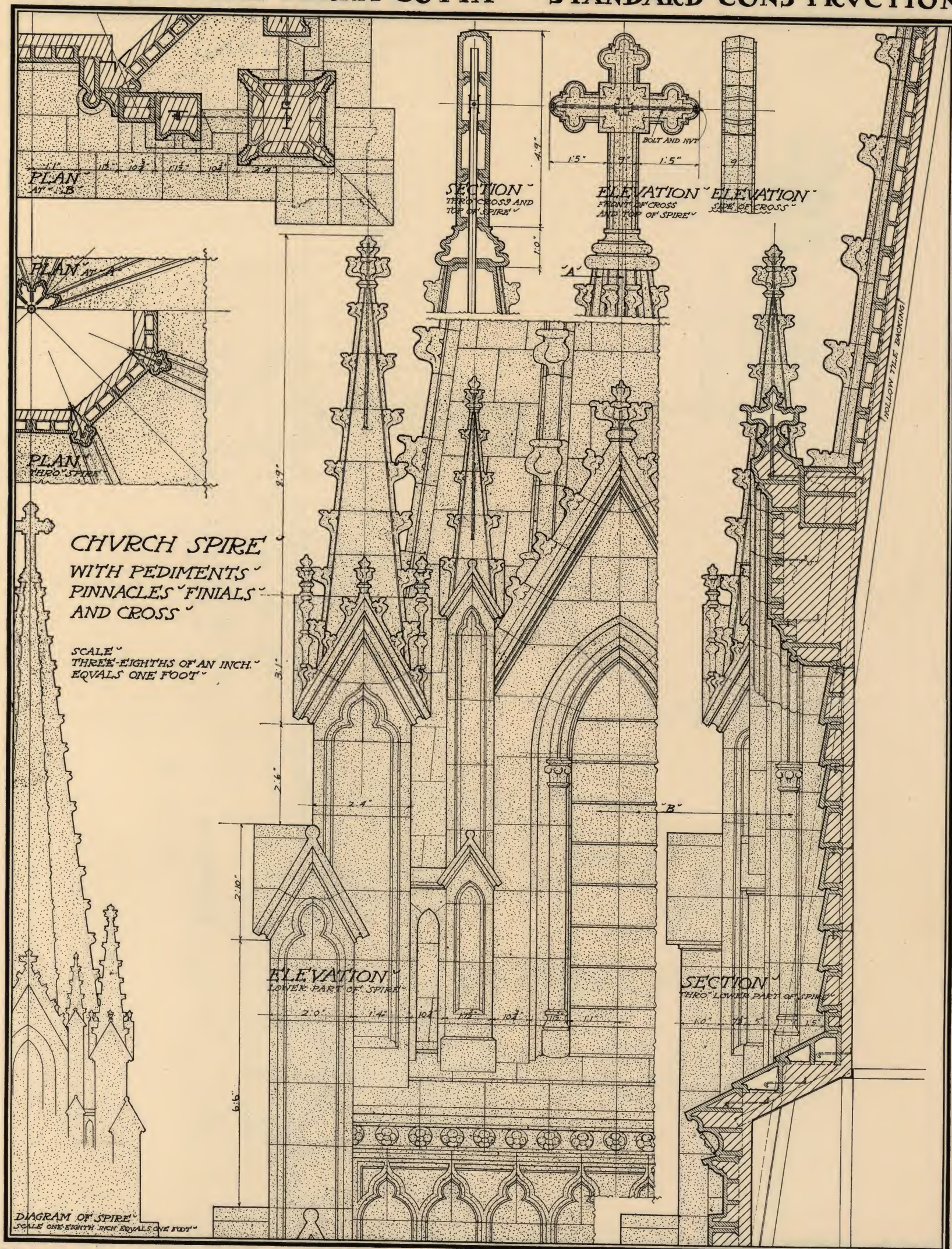


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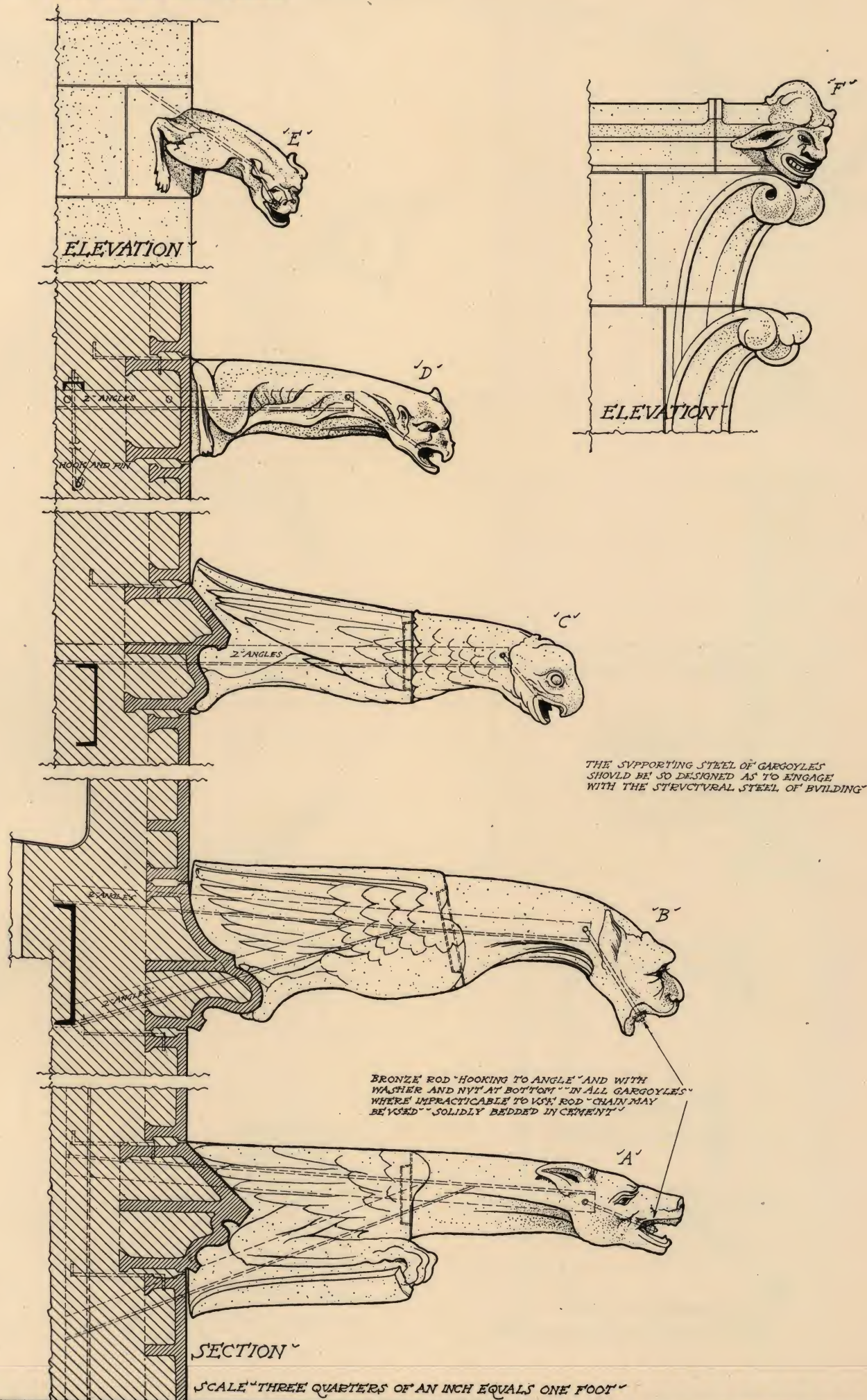
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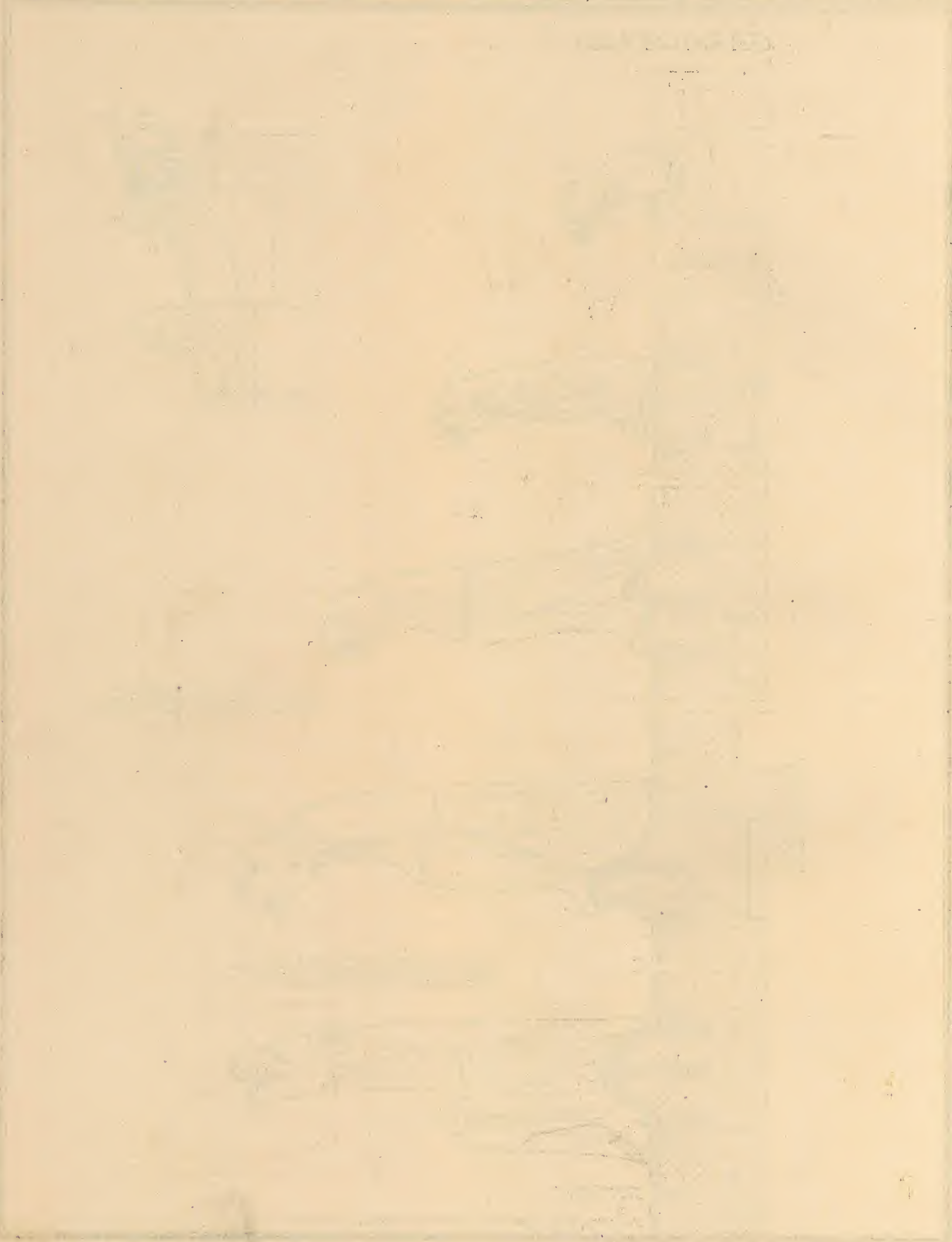




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GARGOYLES





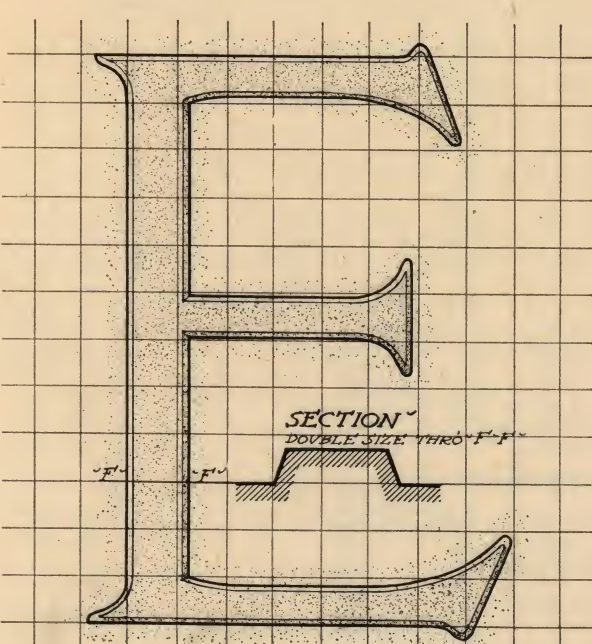
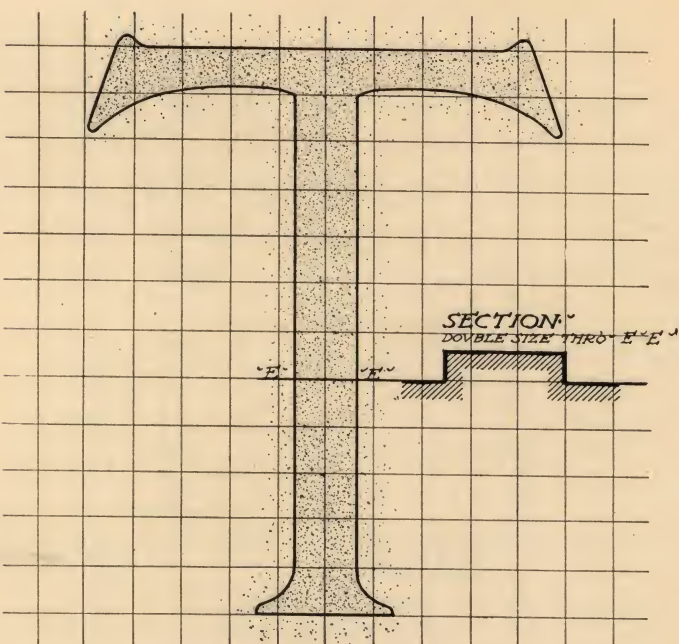
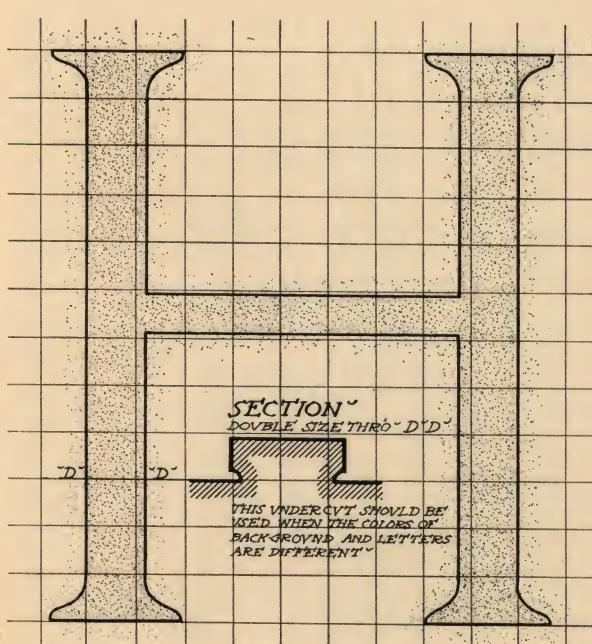
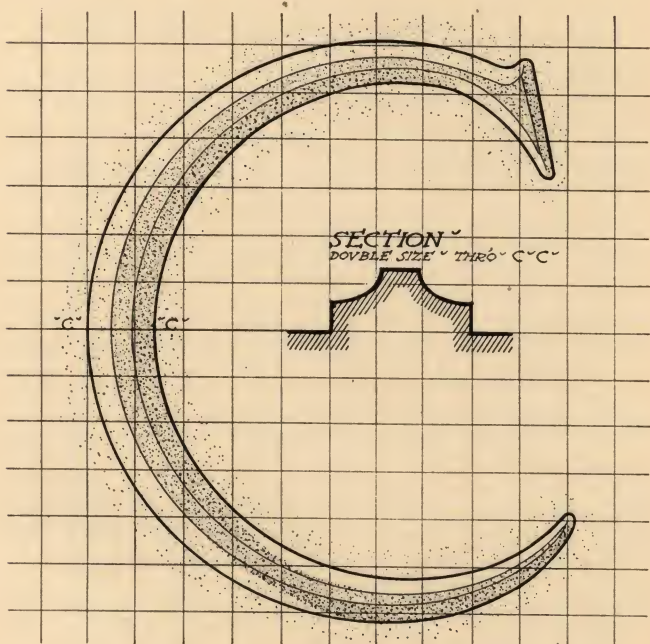
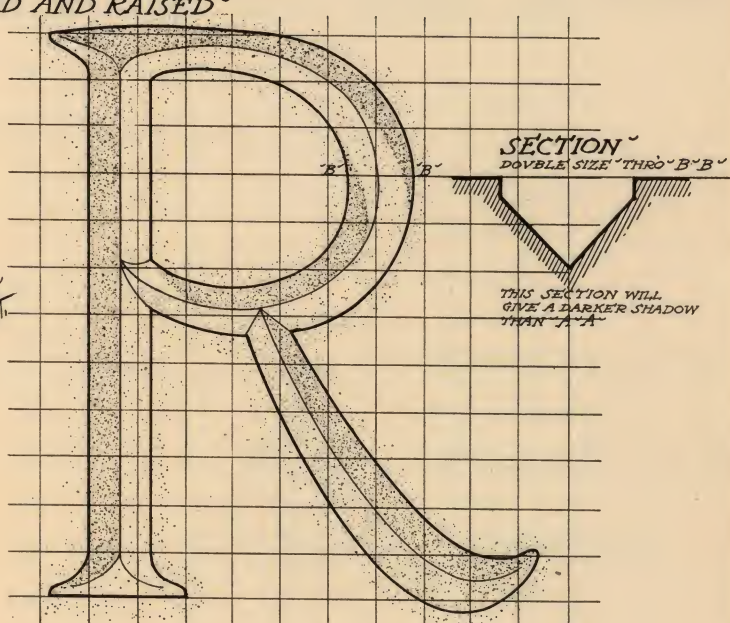
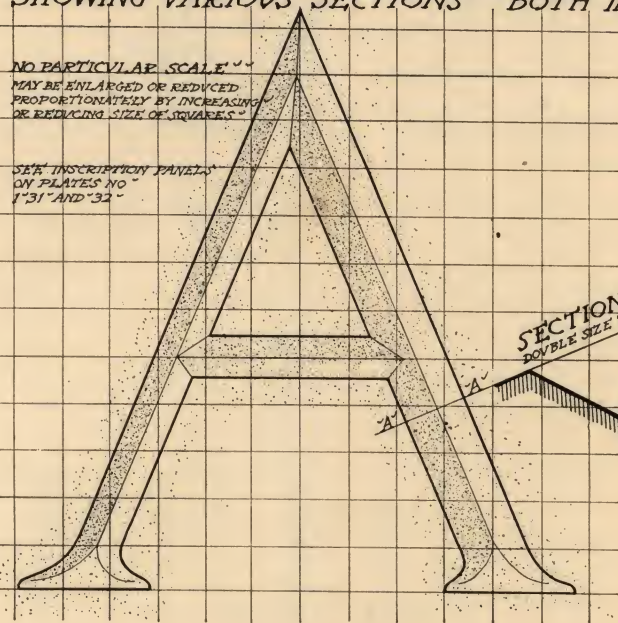
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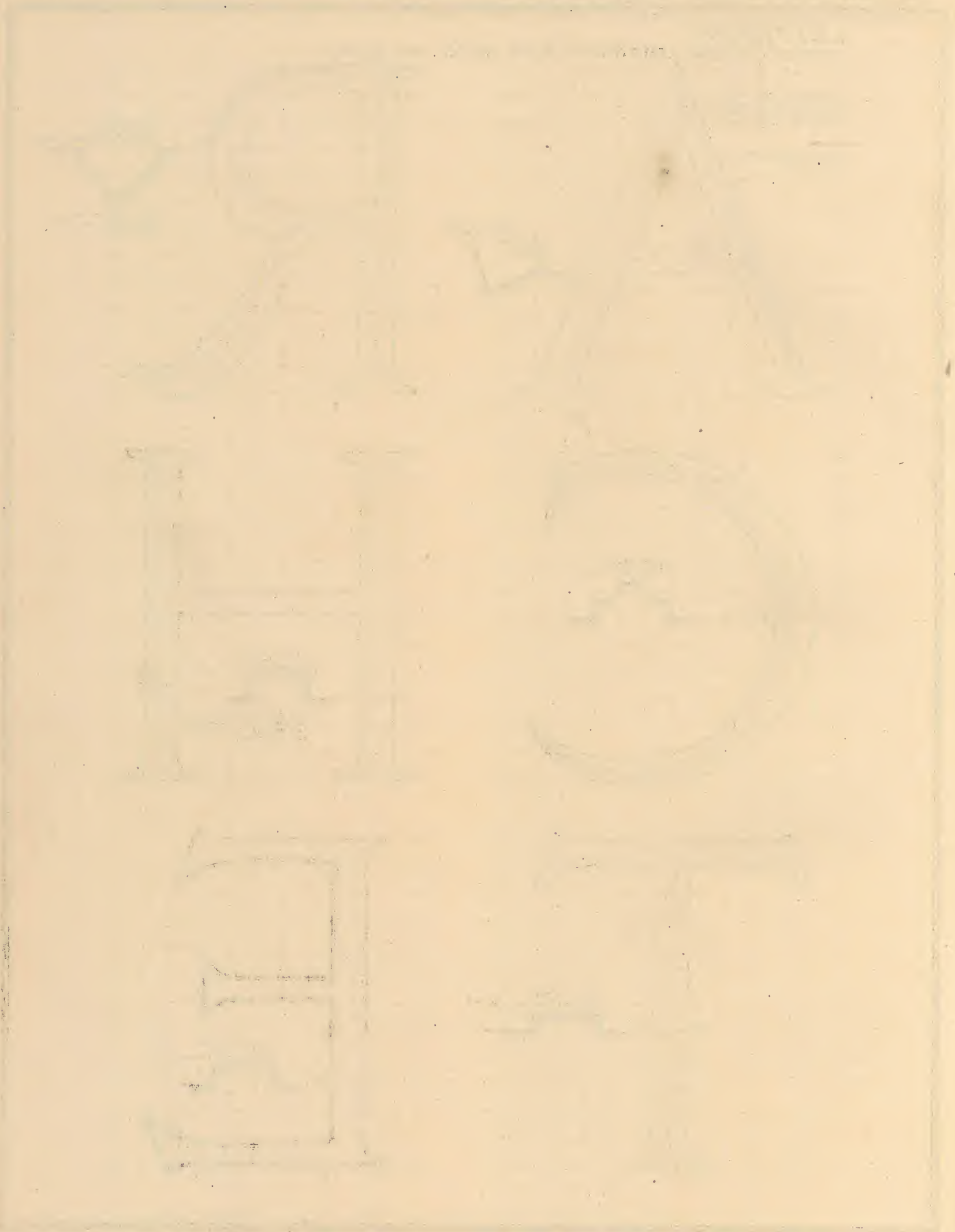
LETTERING

SHOWING VARIOUS SECTIONS · · · BOTH INCISED AND RAISED ·

NO PARTICULAR SCALE · · ·
MAY BE ENLARGED OR REDUCED
PROPORTIONATELY BY INCREASING
OR REDUCING SIZE OF SQUARES ·

SEE INSCRIPTION PANELS
ON PLATES NO ·
1-31 AND 32 ·

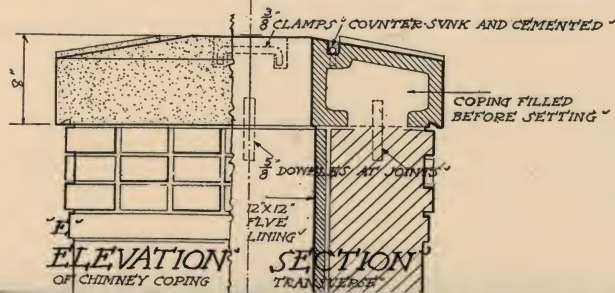
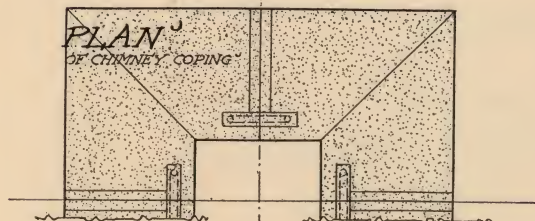
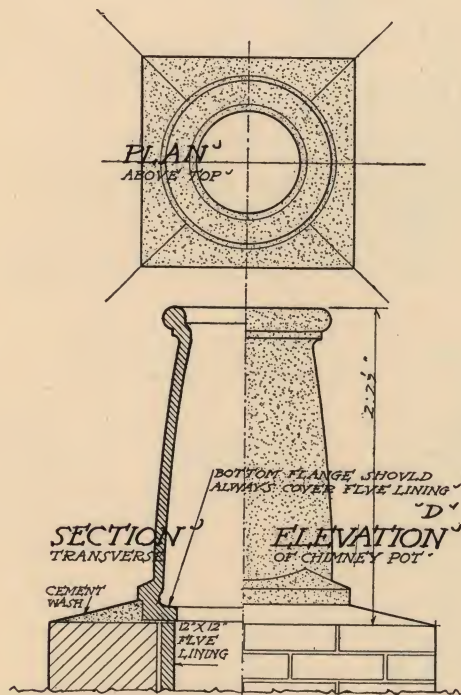
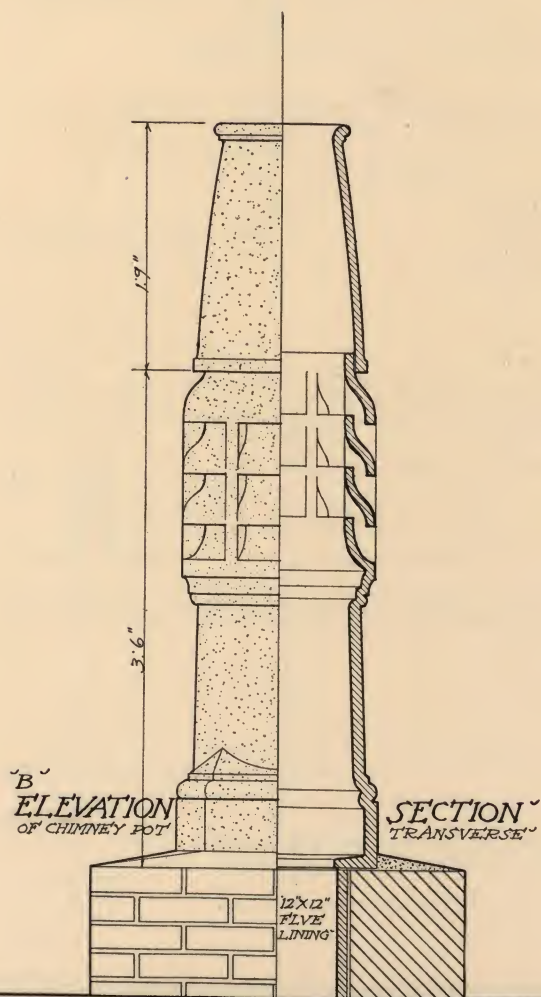
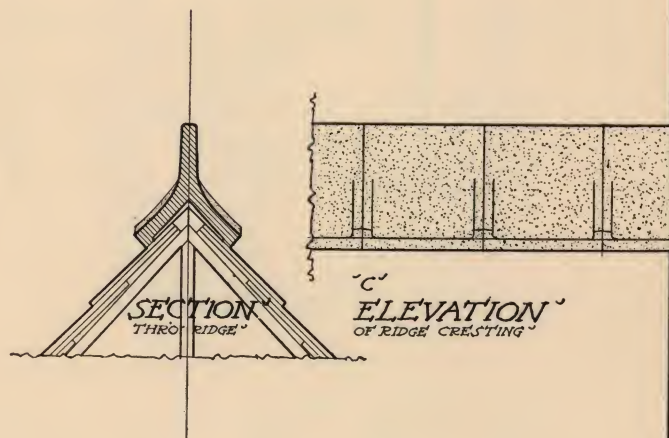
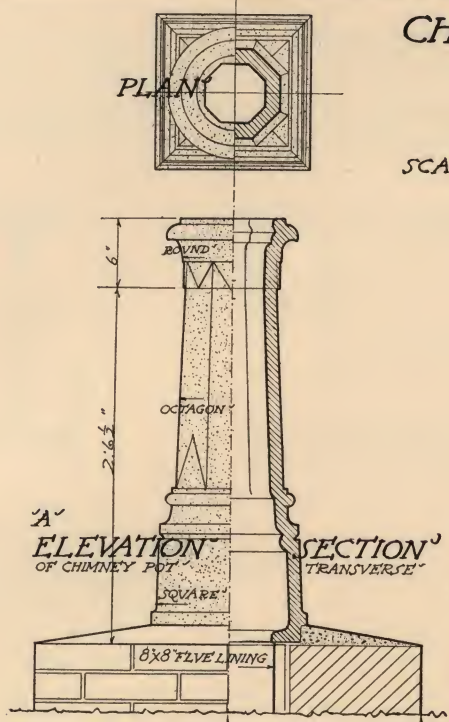




ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

CHIMNEY POTS · COPING AND RIDGE CRESTING

SCALE · THREE-QUARTERS OF AN INCH EQUALS ONE FOOT

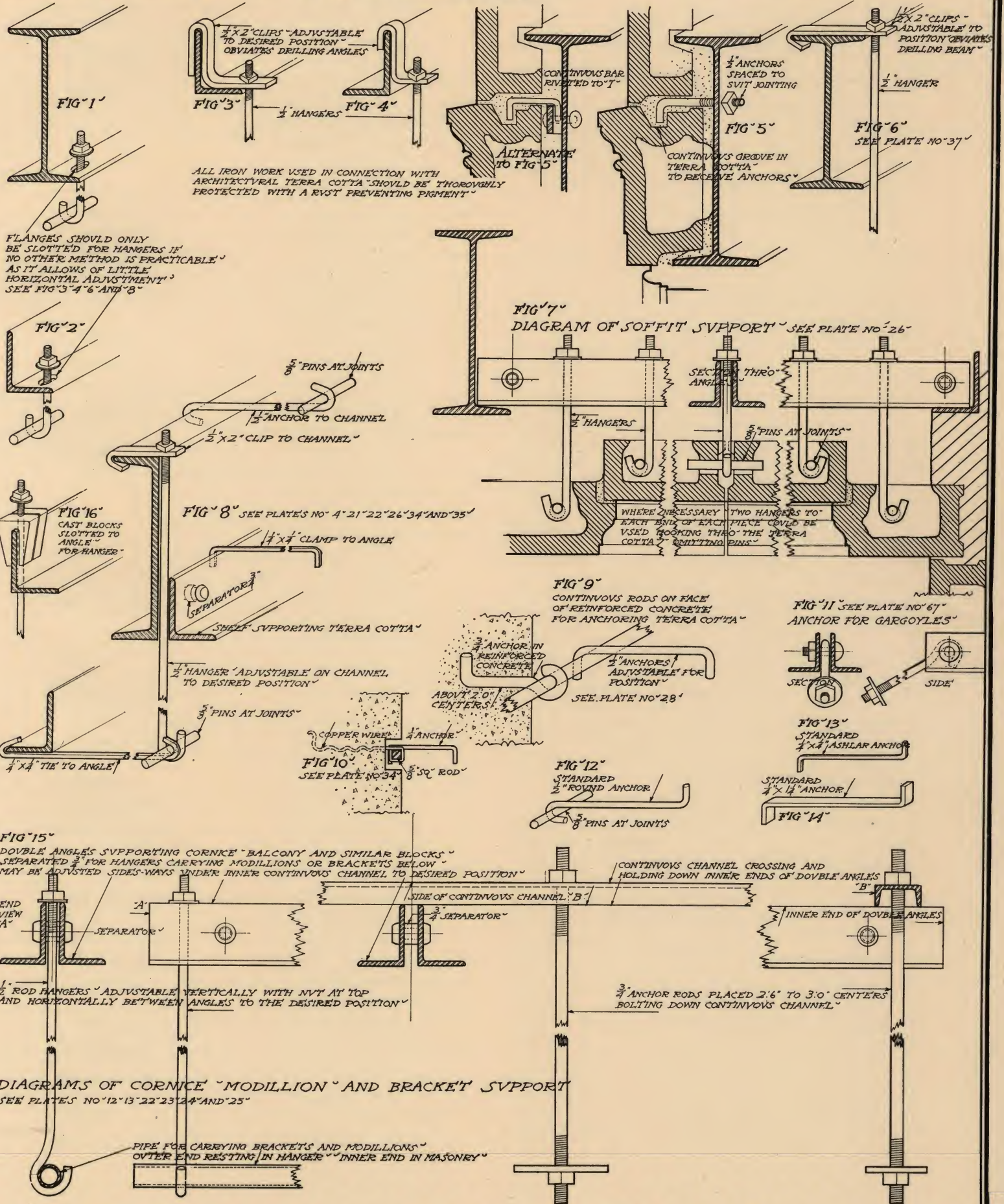




ARCHITECTURAL TERRA COTTA · · · STANDARD CONSTRUCTION

DETAILS OF IRON ANCHORS · HANGERS · STRAPS · CLIPS · ETC · USED IN SETTING ARCHITECTURAL TERRA COTTA

STRUCTURAL STEEL WHEN ERECTED FREQUENTLY VARIES FROM EXACT FIGURED DIMENSIONS · · · FOR THIS REASON ALL SUPPORTS FOR TERRA COTTA INCLUDING ANGLES · RODS · ANCHORS · ETC · SHOULD BE DESIGNED SO AS TO PERMIT OF EASY ADJUSTMENT TO THE REASONABLE REQUIREMENTS OF CONSTRUCTION WHEN THE MATERIAL IS BEING SET





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TO THE SECRETARY OF THE INTERIOR
FROM THE COMMISSIONER OF THE GENERAL LAND OFFICE
WASHINGTON, D. C.
JANUARY 1, 1900

SIR:

I have the honor to acknowledge the receipt of your letter of the 29th inst. in relation to the application for a patent for the right of way for a road through the public lands of the United States, and to inform you that the same has been referred to the proper authorities for their consideration.

I am, Sir, very respectfully,
Your obedient servant,
J. M. [Signature]

ARCHITECTURAL TERRA COTTA . . . STANDARD CONSTRUCTION

MEMBERS OF NATIONAL TERRA COTTA SOCIETY

EXECUTIVE OFFICES

ONE MADISON AVENUE, NEW YORK

1922

American Terra Cotta & Ceramic Company	1701 Prairie Ave.
Chicago, Illinois	
Atlanta Terra Cotta Company	Citizens and Southern Bank Bldg.
Atlanta, Georgia	
Atlantic Terra Cotta Company	350 Madison Ave.
New York, N. Y.	
Brick, Terra Cotta & Tile Company	
Corning, N. Y.	
N. Clark & Sons	116 Natoma Street
San Francisco, California	
Conkling-Armstrong Terra Cotta Company	410 Denckla Building
Philadelphia, Pennsylvania	
Denny-Renton Clay & Coal Company	Pioneer Building
Seattle, Washington	
The Denver Terra Cotta Company	W. First Ave. and Umatilla Street
Denver, Colorado	
Federal Terra Cotta Company	101 Park Avenue
New York, N. Y.	
Gladding, McBean & Company	Crocker Building
San Francisco, California	
Indianapolis Terra Cotta Company	Olney and Roosevelt Sts.
Indianapolis, Indiana	
Kansas City Terra Cotta & Faience Company,	19th St. and Manchester Ave.
Kansas City, Missouri	
O. W. Ketcham	Builders Exchange Bldg.
Philadelphia, Pennsylvania	
Livermore Fire Brick Works	604 Mission Street
San Francisco, California	
Los Angeles Pressed Brick Company	Frost Building
Los Angeles, California	
Midland Terra Cotta Company	520 Chamber of Commerce Bldg.
Chicago, Illinois	
New Jersey Terra Cotta Company	Singer Building
New York, N. Y.	
New York Architectural Terra Cotta Co.	401 Vernon Ave.
Long Island City, New York	
Northern Clay Company	
Auburn, Washington	
The Northwestern Terra Cotta Company	2525 Clybourn Avenue
Chicago, Illinois	
St. Louis Terra Cotta Company	5815 Manchester Avenue
St. Louis, Missouri	
South Amboy Terra Cotta Company	150 Nassau St.
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Tropico Potteries, Inc.	
Glendale, Los Angeles County, California	
Washington Brick, Lime & Sewer Pipe Co.,	Washington St. & Pacific Ave.
Spokane, Washington	
Western Terra Cotta Company	Franklin Ave. and Mo. Pac. Ry.
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Winkle Terra Cotta Company	Century Building
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